NASA CR-
144411

FINAL REPORT

PORTABLE MEDICAL STATUS SYSTEM

Contract NAS 9-14334

Submitted to

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Lyndon B. Johnson Space Center
Houston, Texas

By

TELECARE, INC.
8575 Mosley Road
Houston, Texas 77034

August, 1975

1.0 SCOPE

The purpose of this report is to summarize the final results in the performance of Contract NAS 9-14334.

4.0 ACCOMPLISHMENTS

On July 18, 1975, the acceptance test was successfully completed and the operational unit ("feasibility breadboard") was received by the Technical Monitor. The appropriate DD250 forms were completed and are submitted with the final report.

All of the requirements of the Statement of Work were successfully completed. Enclosed is a drawing package (Appendix A) which includes electrical schematics and outline drawings as required by Paragraph 3.6.3 of the Statement of Work. Figures 2.0-1, 2.0-2, and 2.0-3 are photographs of the completed, operational unit.

The most significant problem encountered in the development of the Portable Medical Status System was associated with the Liquid Crystal Digital Displays. A significant mechanical contact problem was initially encountered which required a redesign for the electrical connector brackets. Then, it was found that the displays did not exhibit the desired amount of contrast at low ambient light levels. Visibility of the displays in a darkened room could be enhanced by the use of a penlight. Recent developments in liquid crystals have enhanced the available contrast ratios. Thus, it may be possible to continue to use the low-powered liquid crystal displays without the nuisance of loss of visibility at low light levels.

The final weight of the unit was 29 pounds. All supplies were fitted into the allocated volume; however, it is a tight fit.

3.0 RECOMMENDATIONS FOR FUTURE UNITS

The following recommendations are submitted for future units of this type.

3.1 Liquid Crystal Displays

Investigate new developments in liquid crystal displays with enhanced contrast ratios. Compare these displays with Light Emitting Diode and other types for

Figure 2.0-1 - Portable Medical Status System in Transit

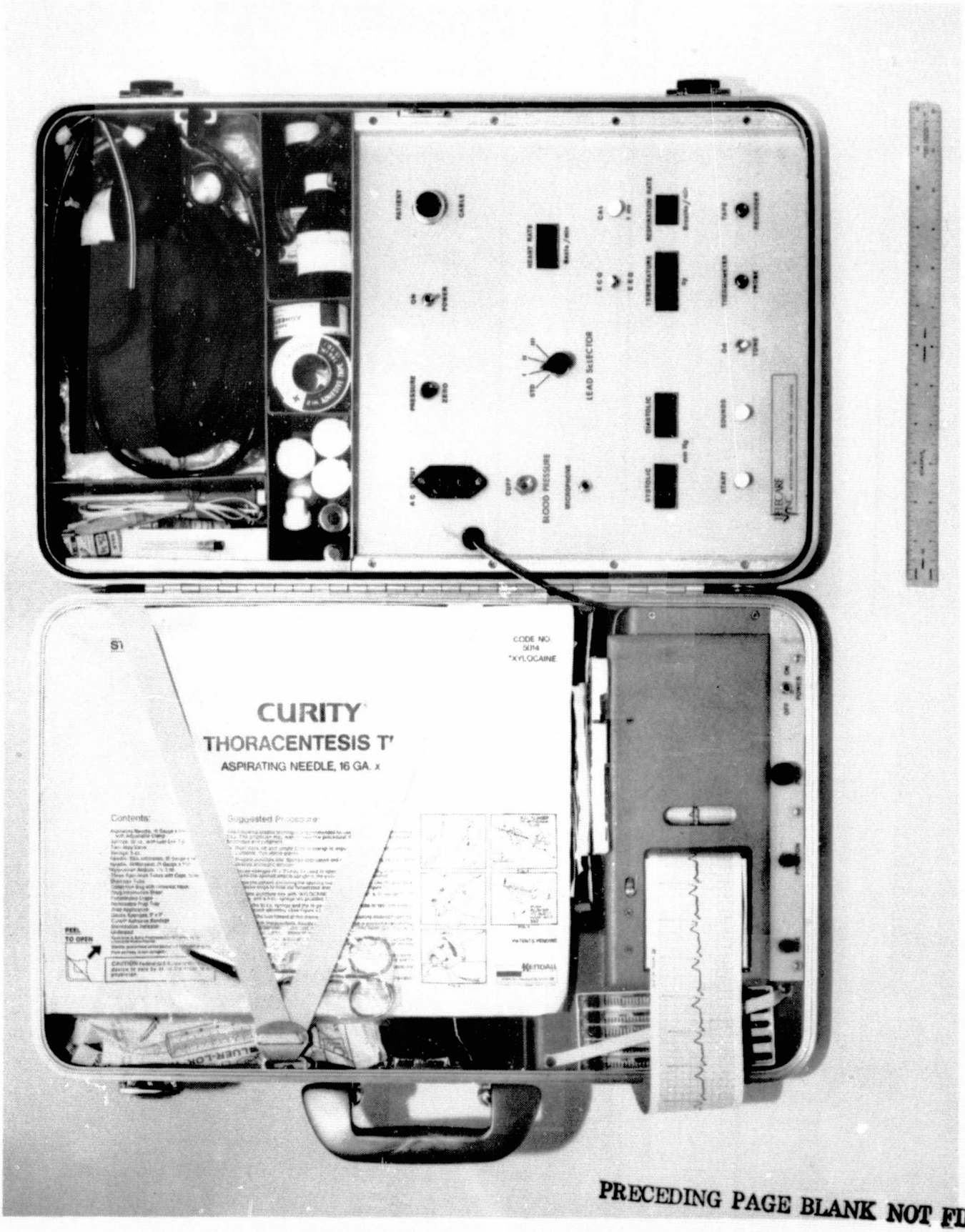

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Figure 2.0-2 - Portable Medical Status System opened for use.

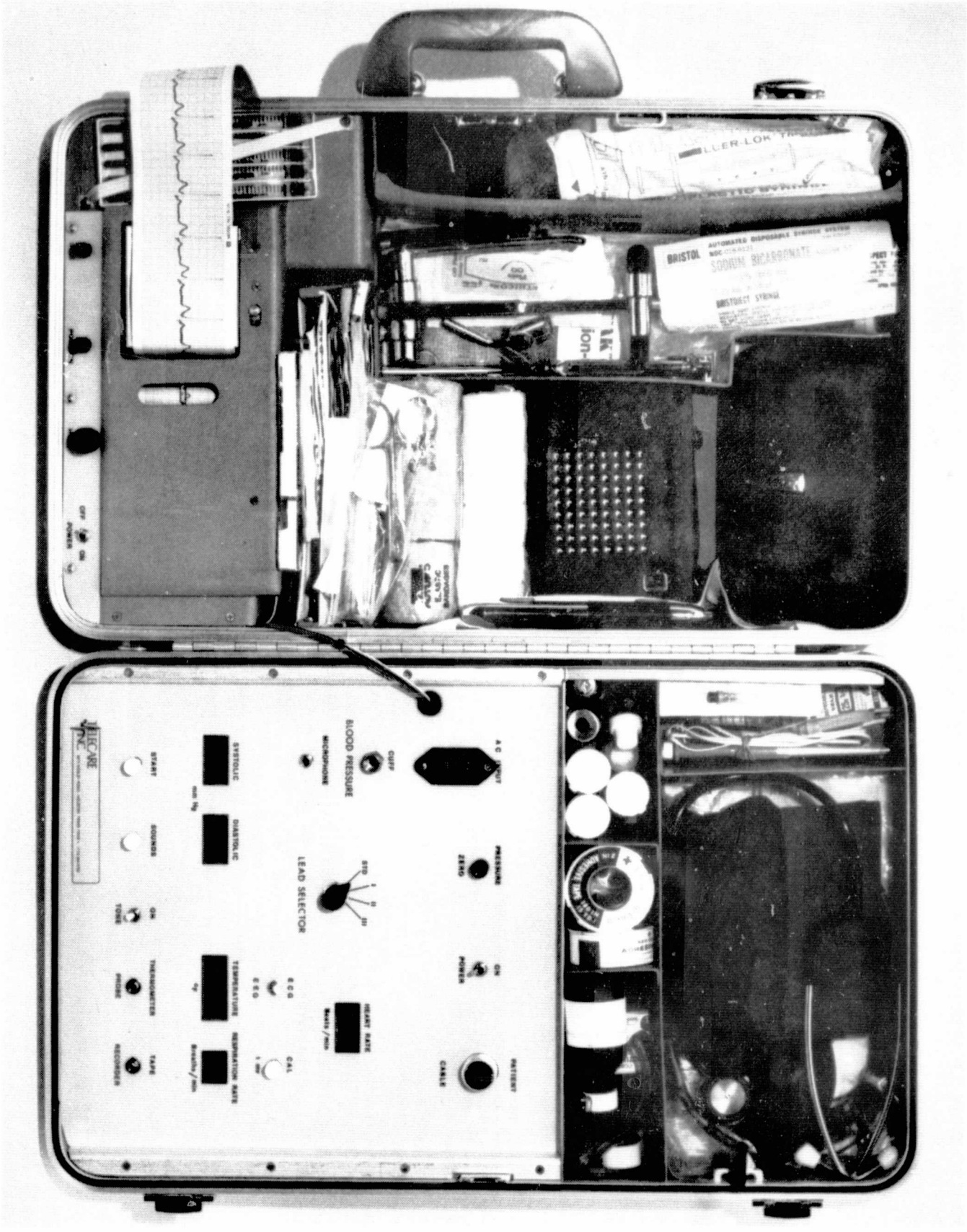

Figure 2.0-3 - Portable Medical Status System with Combination Thoracentesis/Spinal Puncture Kit Removed.

visibility and general applicability on this instrument.

3.2 Miniaturization of Circuitry

Investigate the space savings which could be accomplished by hybridizing portions of the electronics circuitry. Perhaps a large portion of the electronics circuitry could be miniaturized such that additional space could be made available for medical supplies.

3.3 ECG Receiver Circuitry

Investigate the feasibility of adding an ECG receiver circuit to the unit which would accept an input from a telephone or a portable radio. The ECG could then be recorded using the strip chart recorder. Such an addition would add potential uses for the portable medical status system since the physician could also use the instrument to receive ECG's from his patients while the physician is at a remote site such as his office or home.

APPENDIX A

DRAWING PACKAGE
OF
ELECTRICAL SCHEMATICS
AND
OUTLINE DRAWINGS

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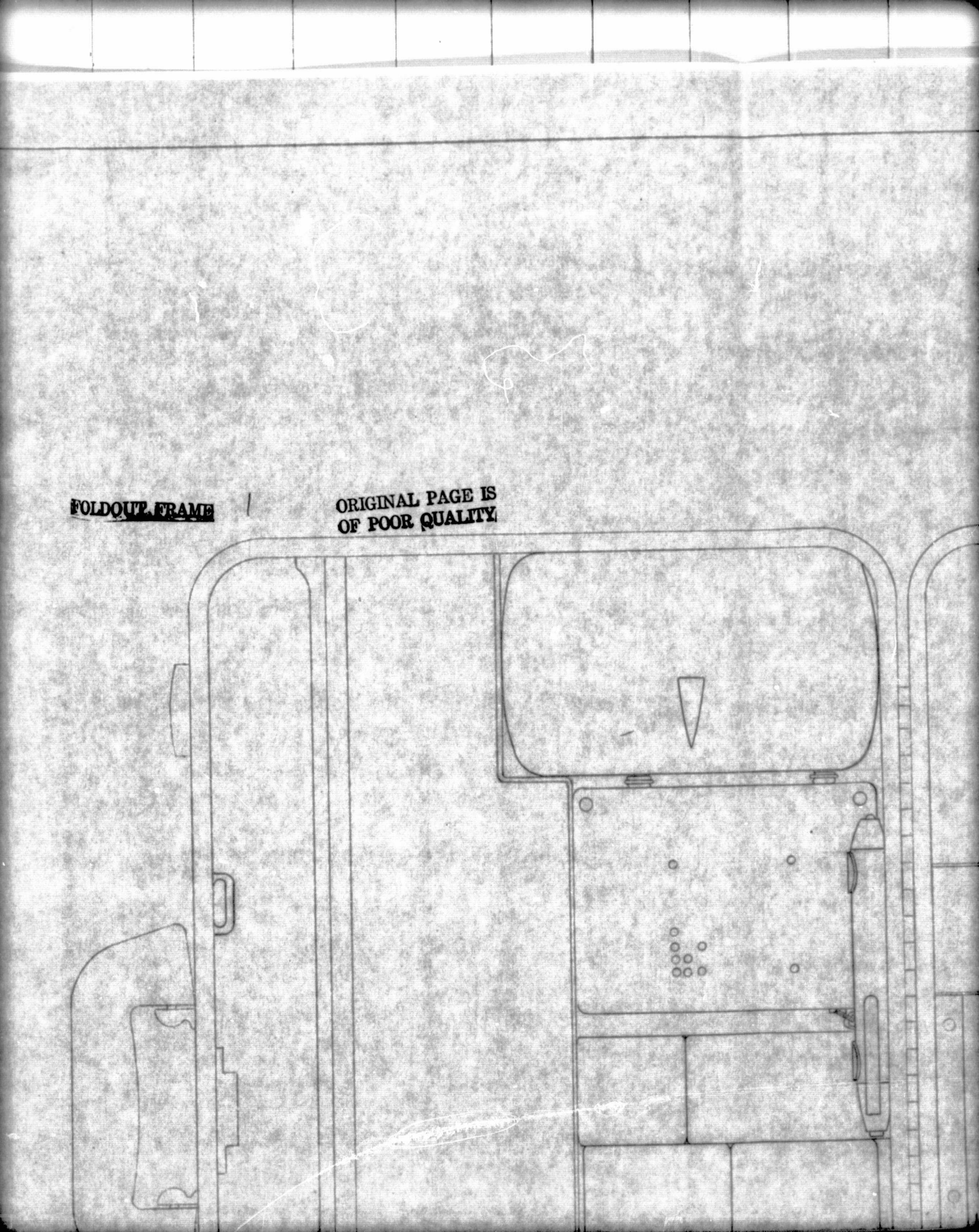

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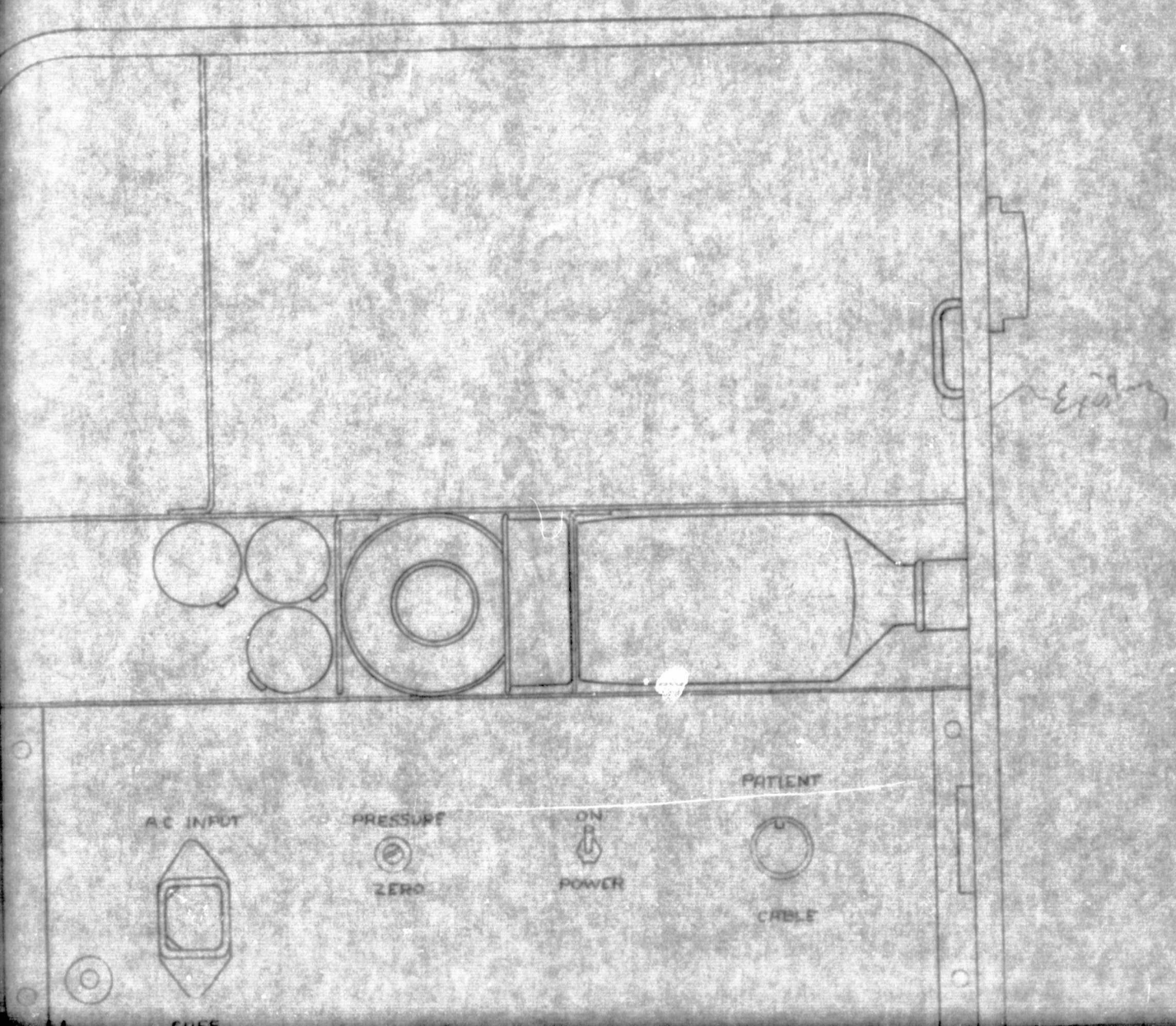

REVISIONS			
REV.	DESCRIPTION	DATE	APPD

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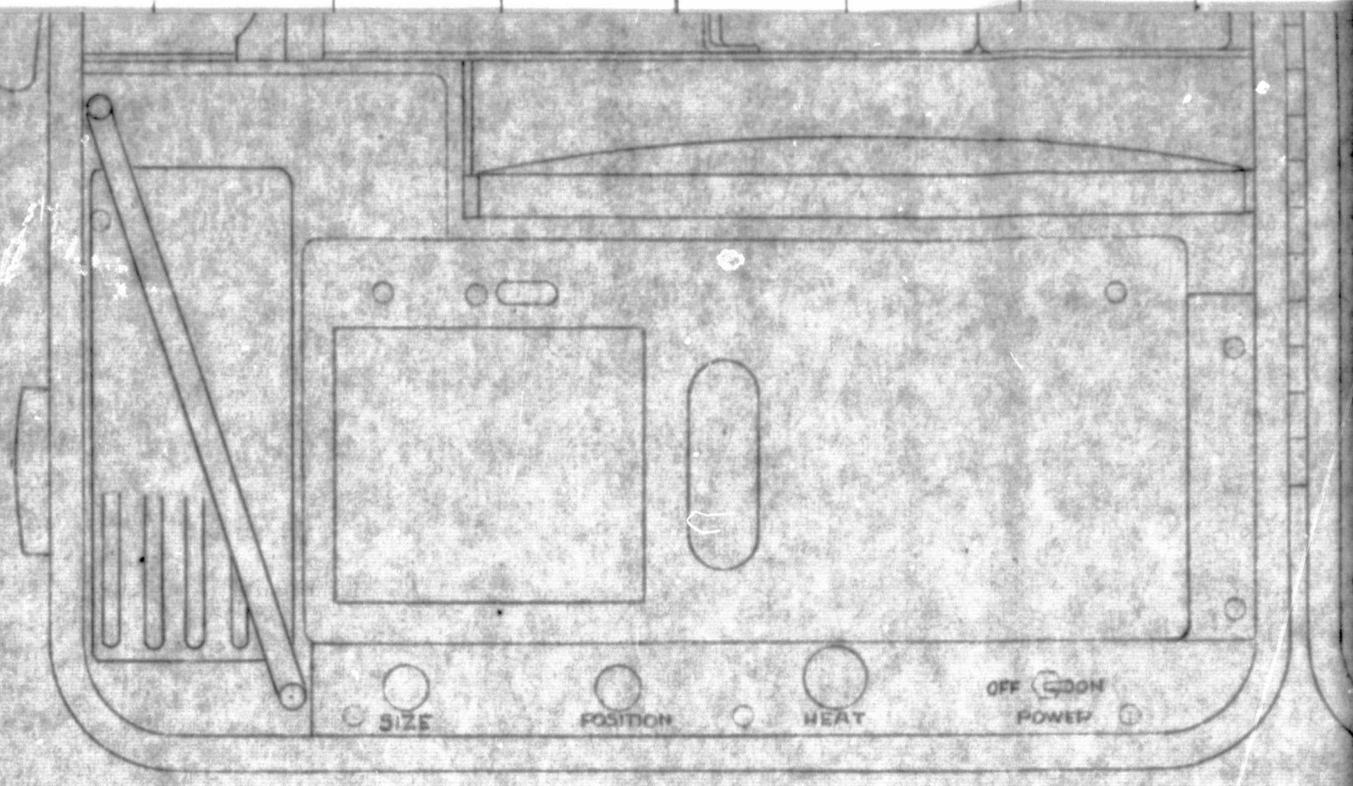

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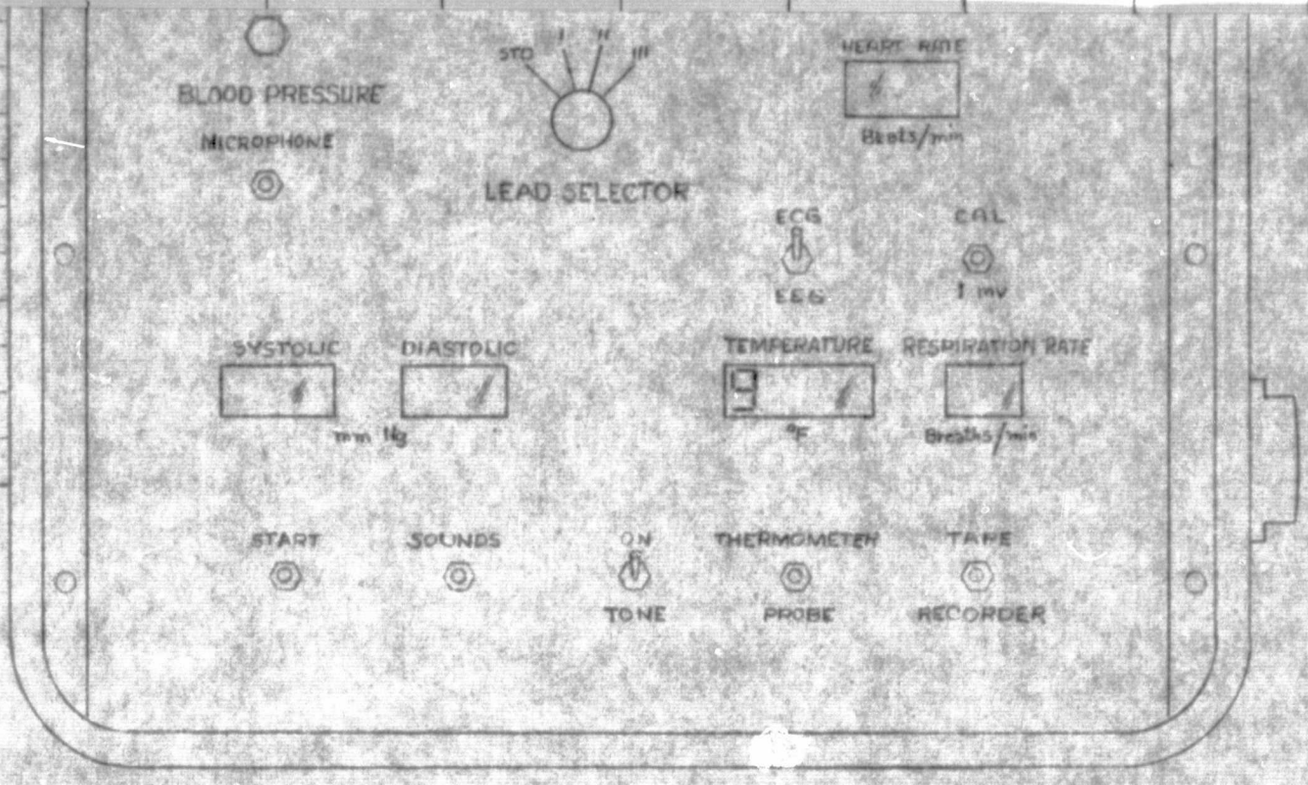

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BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
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APPD BY
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MFG. ENG.
DATE

PROJ. ENG.
DATE

TELECARE INC.

8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
OUTLINE DRAWING W/ACCESSORIES

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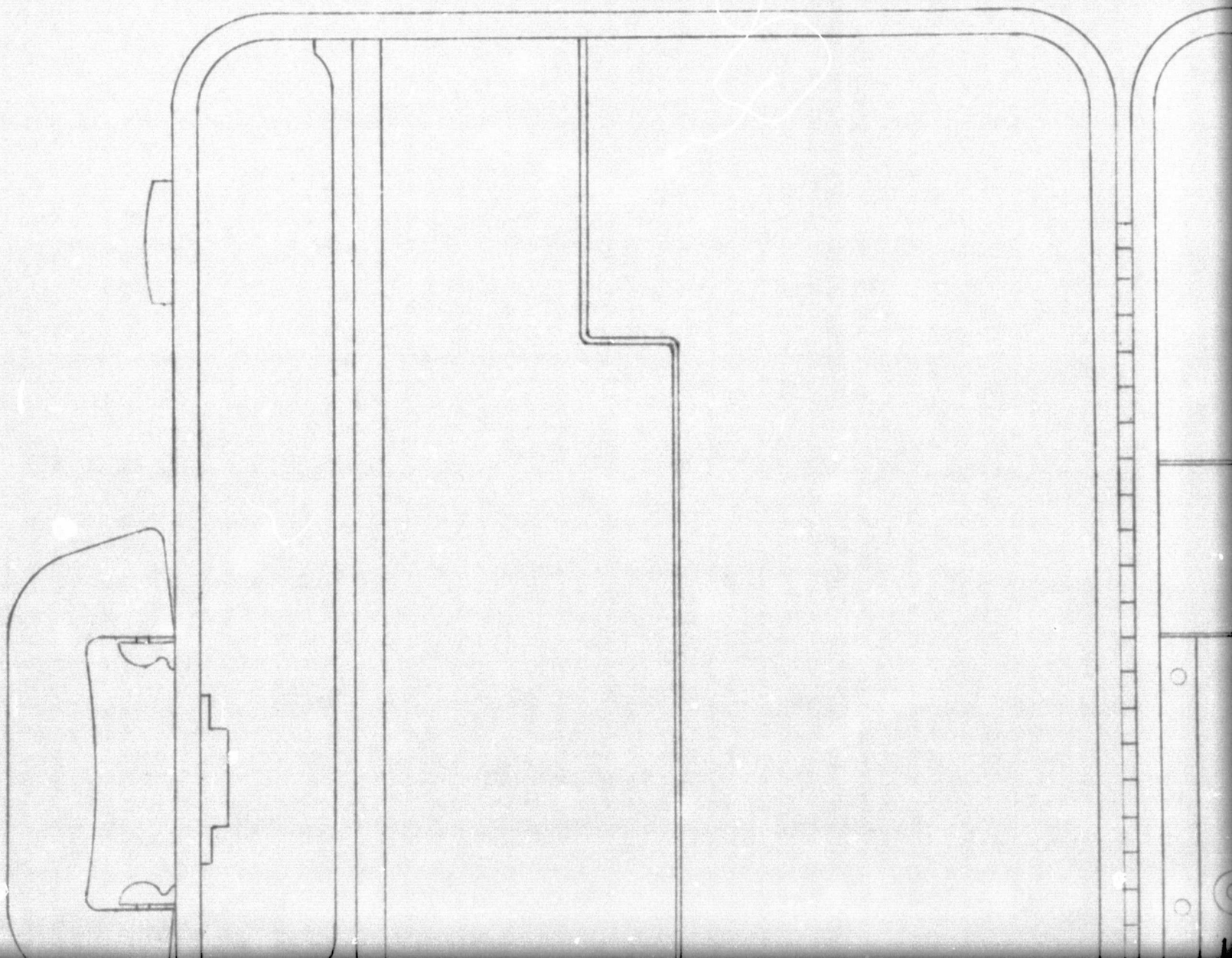

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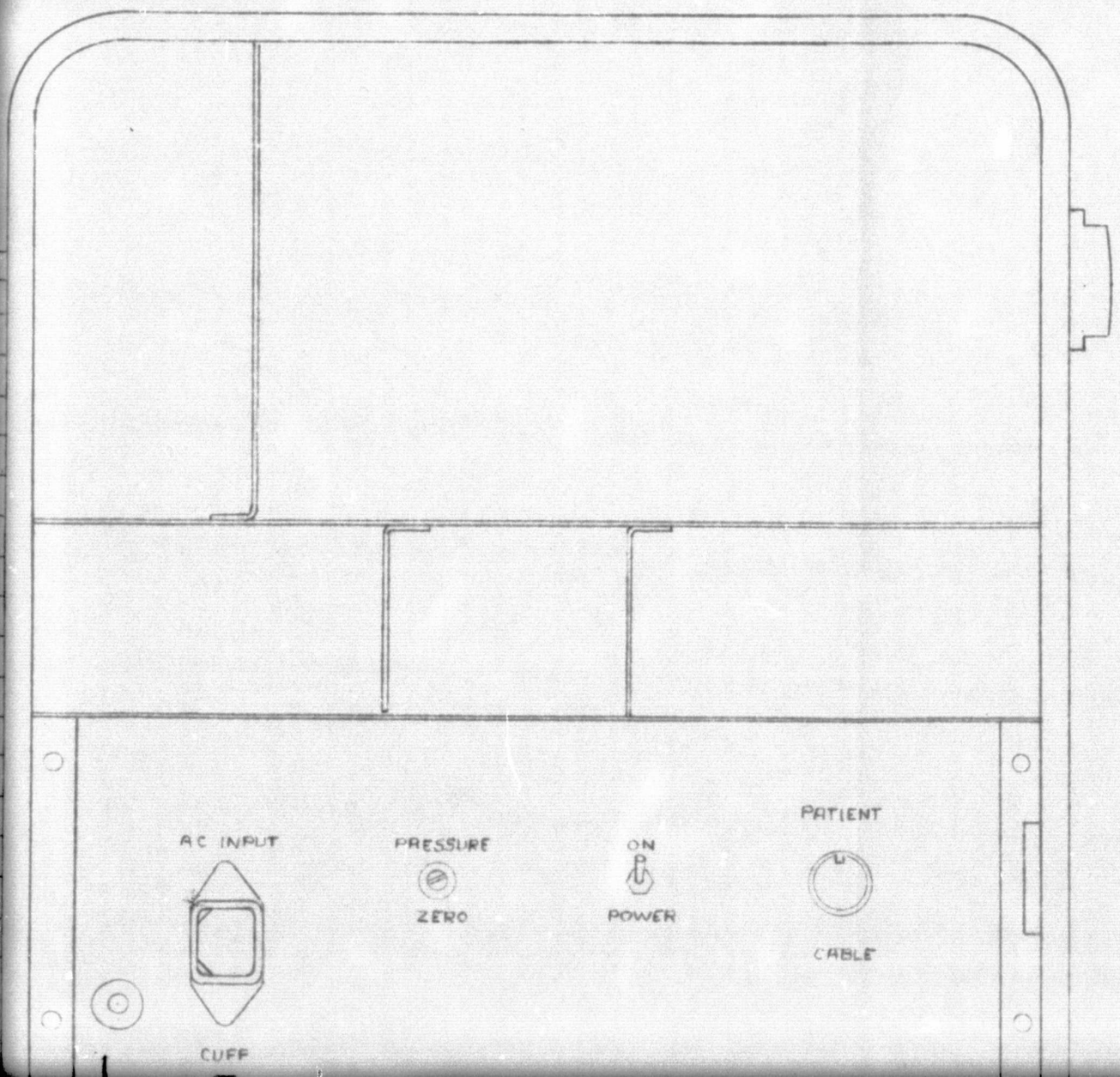

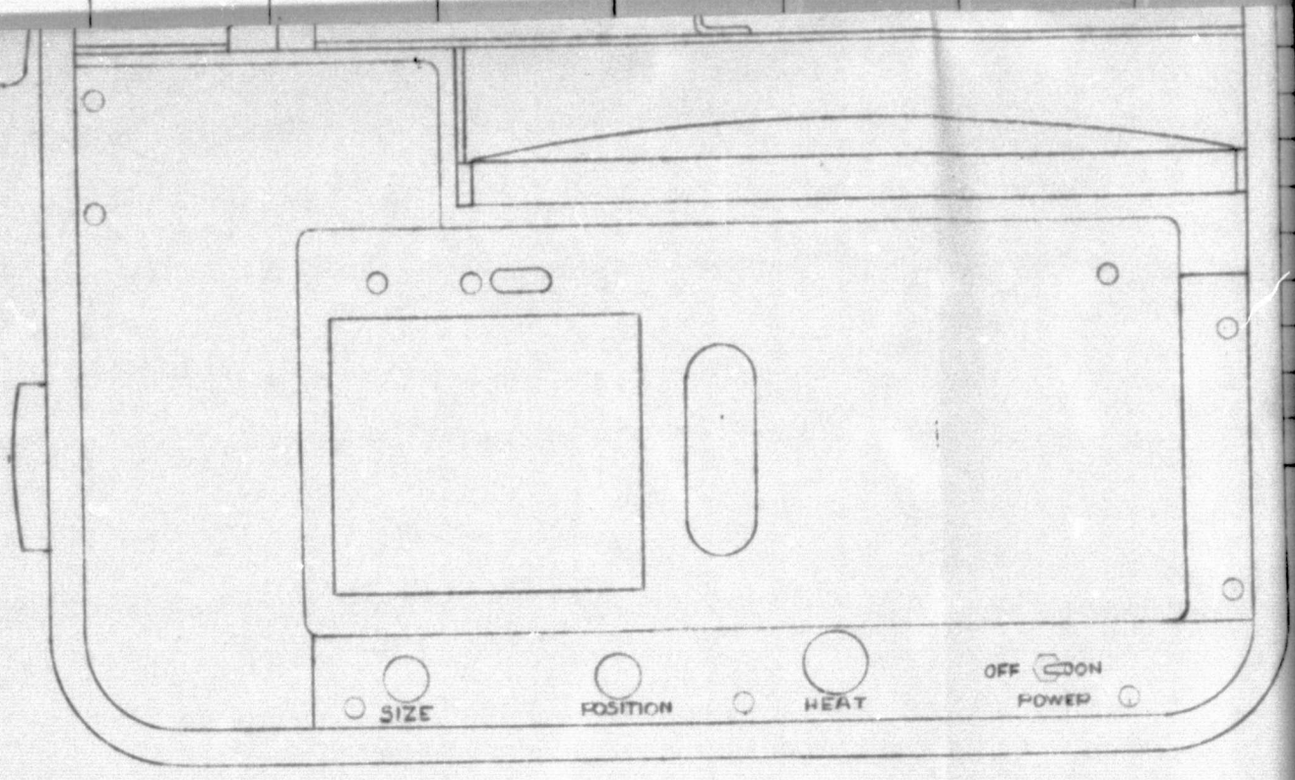

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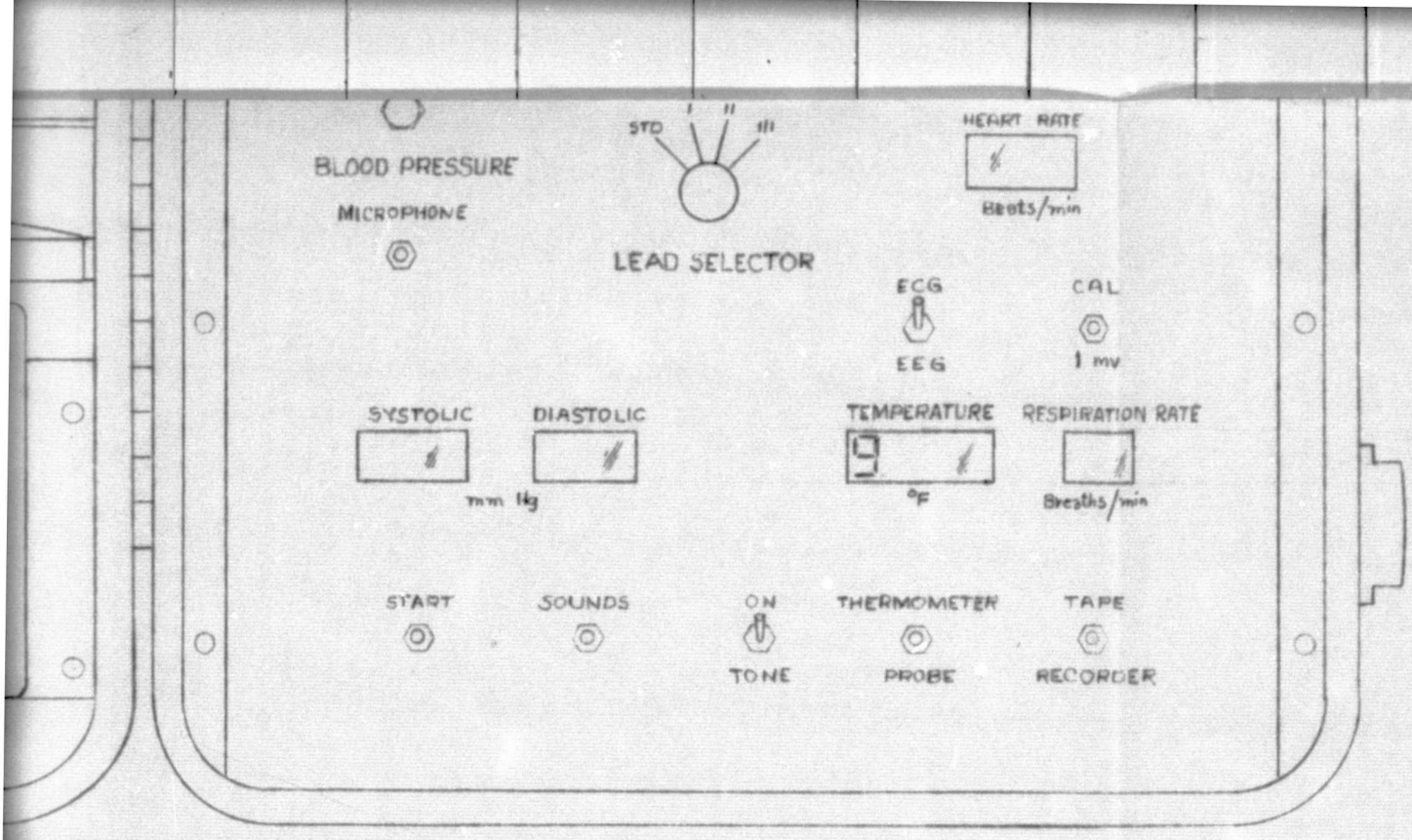

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BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

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MFG. ENG.
DATE

PROJ. ENG.
DATE

TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
OUTLINE DRAWING WITHOUT ACCESSORIES

CODE IDENT	SIZE	PART NO.	REV.

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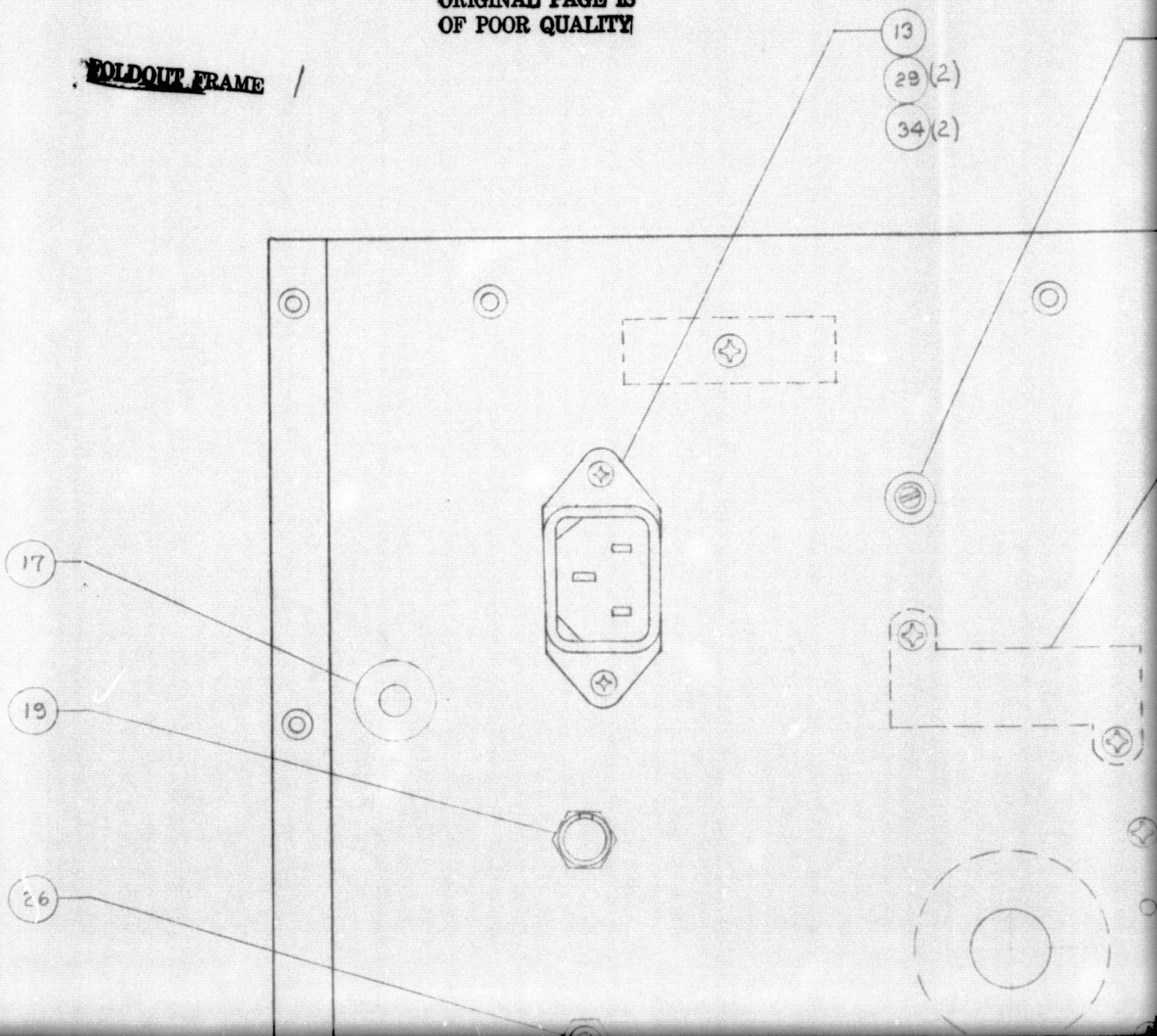

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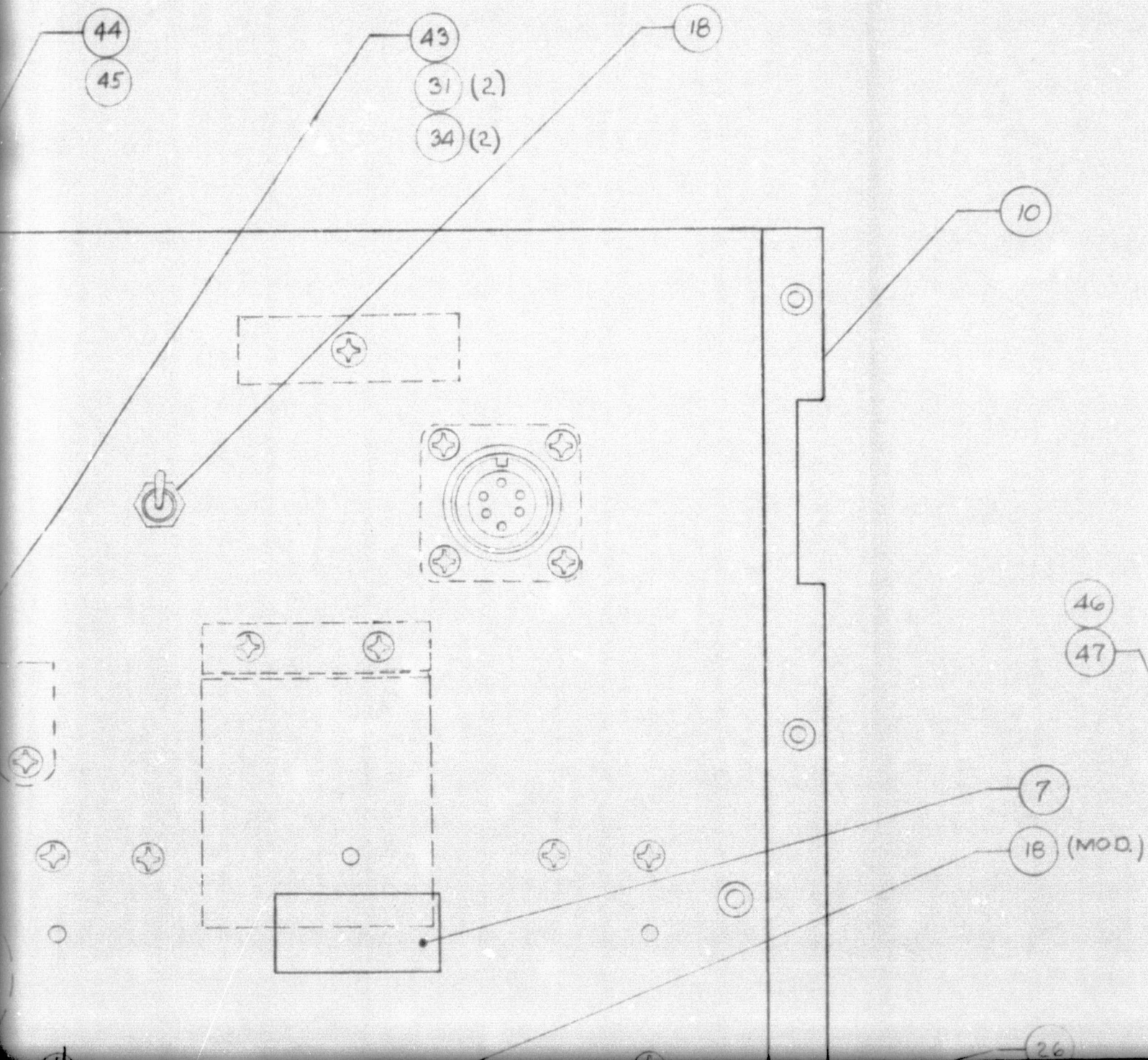

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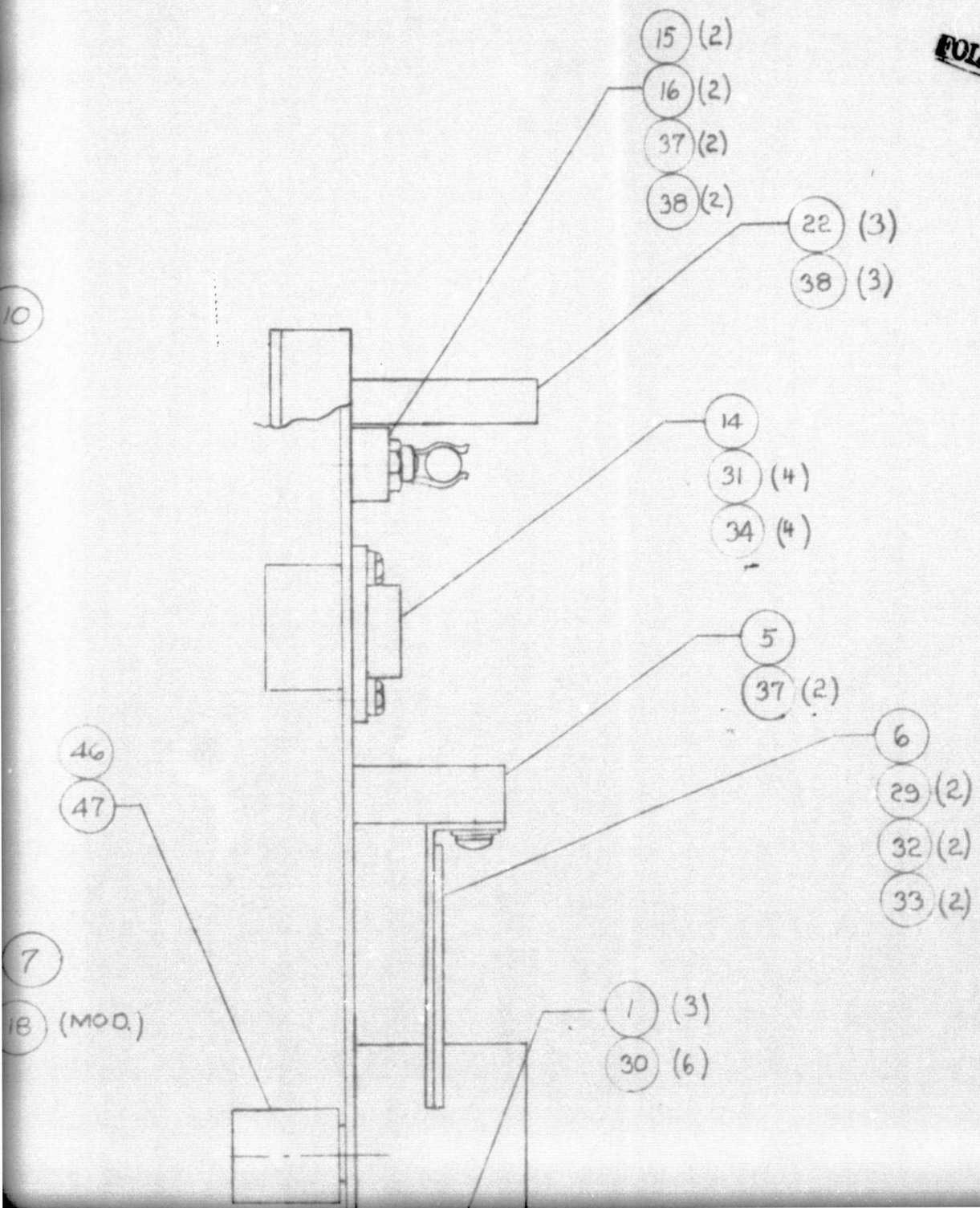

NOTES

1. MOUNTING PANEL 601784 OMITTED FOR CLARITY.
2. ONLY ONE LCD ASSEMBLY SHOWN
3. IMPORTANT HOLD .30, .70 & 1.10 MAX. DIMS.

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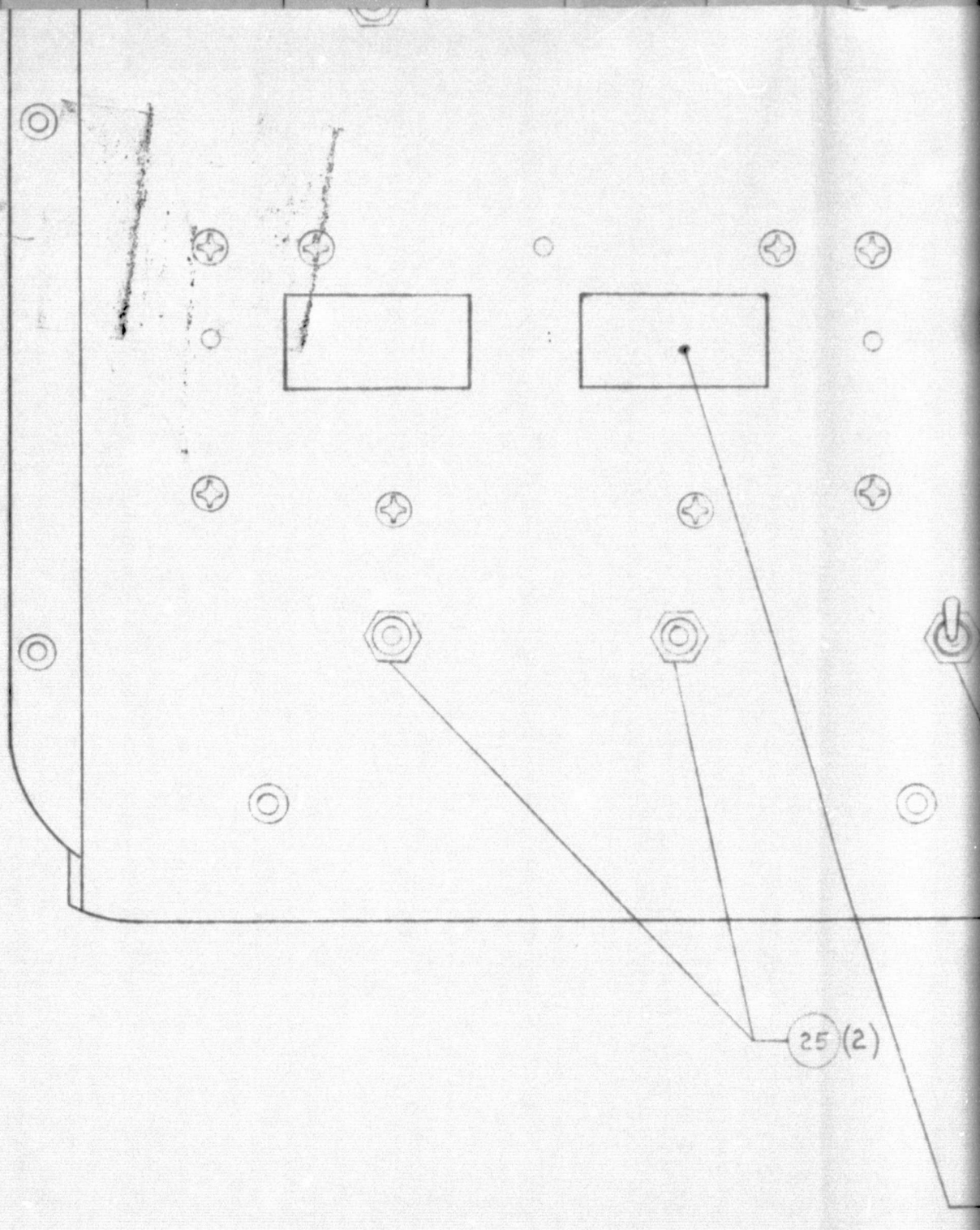

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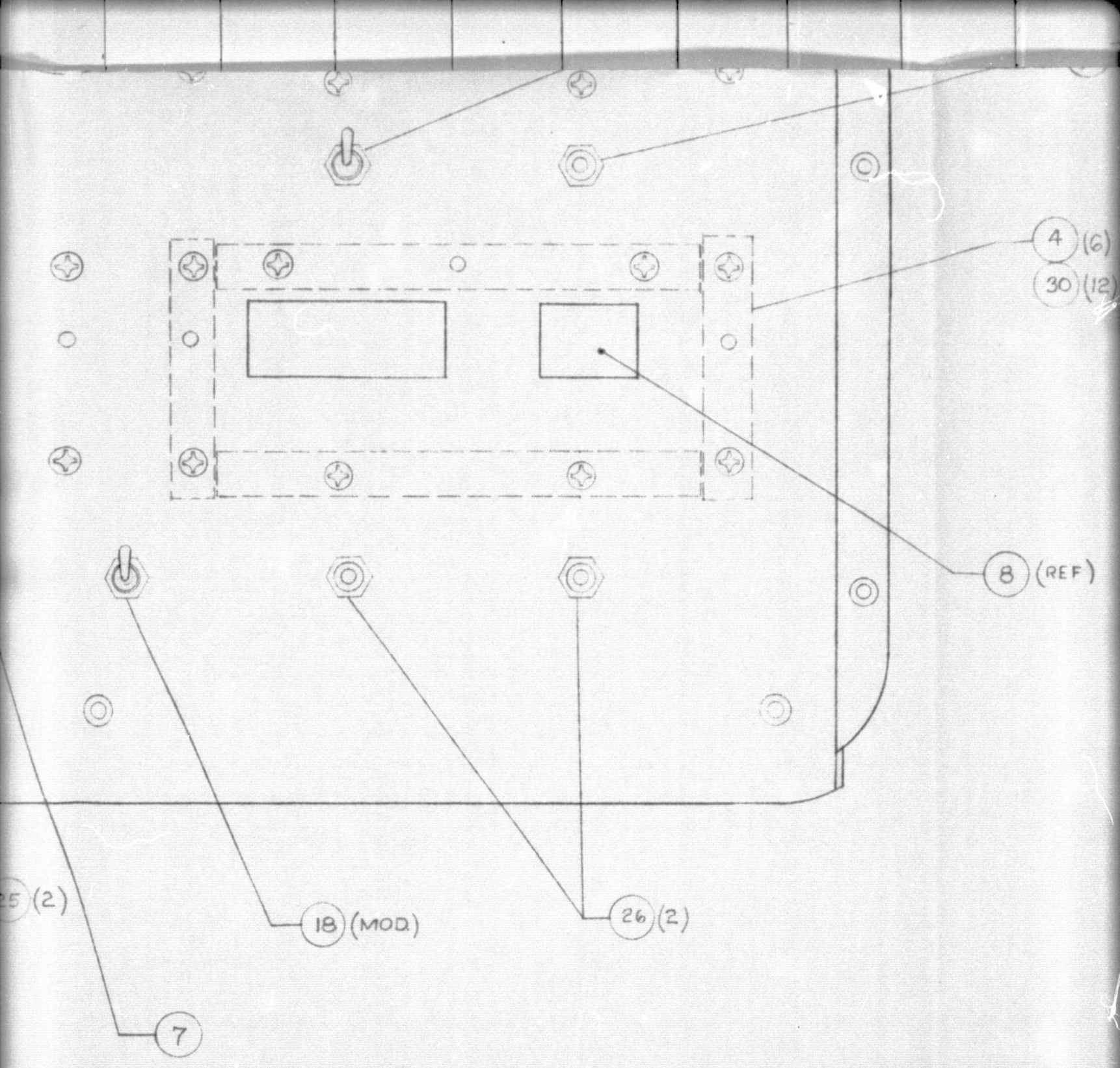

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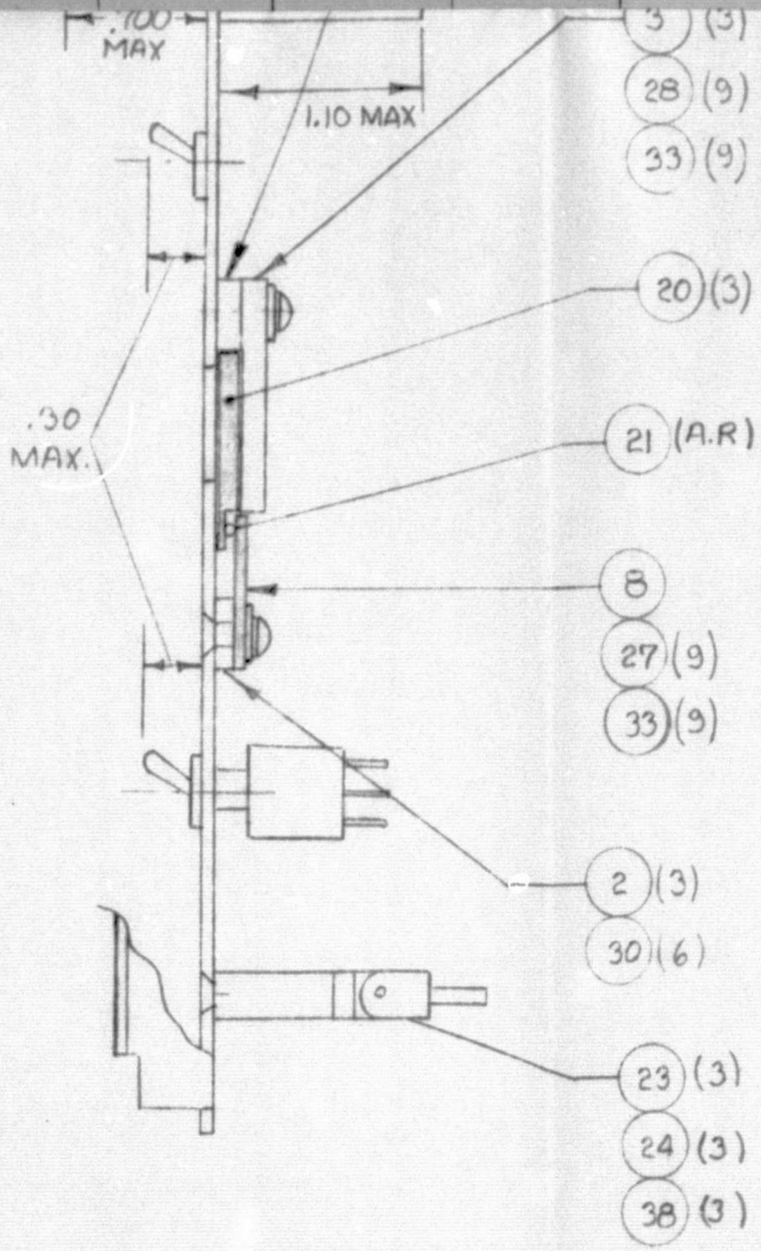

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-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY / DATE
CK BY / DATE
APPD BY / DATE
MFG. ENG. / DATE
PROJ. ENG. / DATE

TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

MOUNTING PANEL ASS'Y
PORTABLE MEDICAL STATUS SYSTEM

CODE IDENT	SIZE	PART NO. 601783	REV.
UNIT WT.	SCALE	SH OF	

REVISIONS			
REV.	DESCRIPTION	DATE	APPD

USED ON	NEXT ASS'Y	SCH. DIAG.	WIRING DIAG.	

DWN BY DATE	TELECARE INC. 8575 MOSLEY DRIVE HOUSTON, TEXAS 77034			
CK BY DATE				
APPD BY DATE	MOUNTING PLATE ASS'Y PORTABLE MEDICAL STATUS SYSTEM			
MFG. ENG. DATE				
PROJ. ENG. DATE	CODE IDENT	SIZE A	PART NO. PL 601783	REV.
	UNIT WT.		SCALE	SH 1 OF

QTY REQD -4	-3	-2	-1	PART NO.	DESCRIPTION	SPEC. OR MFG.	REF. DES.	ITEM NO.
			3	400600	GUIDE LCD			1
			3	400601	SPACER			2
			3	400602	TOP PLATE			3
			6	400603	GUIDE			4
			1	400604	SPACER, CRYSTAL			5
			1	400643	CRYSTOL ASS'Y			6
			2	501485	LCD P/c CARD		1 & 3	7
			1	501486	LCD P/c CARD		2	8
			1	601784	MOUNTING PANEL (REF.)			9
			1	601788	MOUNTING PLATE			10
								11
								12
			1		CONNECTOR			13
			1	121180-0150	CONNECTOR			14
			2	151001-0200	HOLDER, FUSE			15
			2		FUSE			16
			1	128550-2040	GROMMET			17
			3	151100-0852	SWITCH			18
			1	400840-0001	FITTING, BULKHEAD 0019BKLP	GRAYTEK		19
			3		LCD	HAMLIN 3501		20
			14		CONNECTOR, ELASTOMATE	AMP P/N 485232-1		21
			3		SPACER 1 1/4 Lg (MOD TO 1 1/8)	KEYSTONE 1636		22
			3		SPACER 5/8 Lg	KEYSTONE 1548 D		23
			3		STANDOFF, HINGED 1/2 Lg	KEYSTONE 358		24
			2	151100-0320	SW TOGGLE MOM SPDT	C-H SFISH X191-1-1		25
			4	121450-0350	JACK, MIN PHONE	SWC 42A		26

TELECARE INC.

SIZE	DWG NO.	REV.
A	PL 601783	

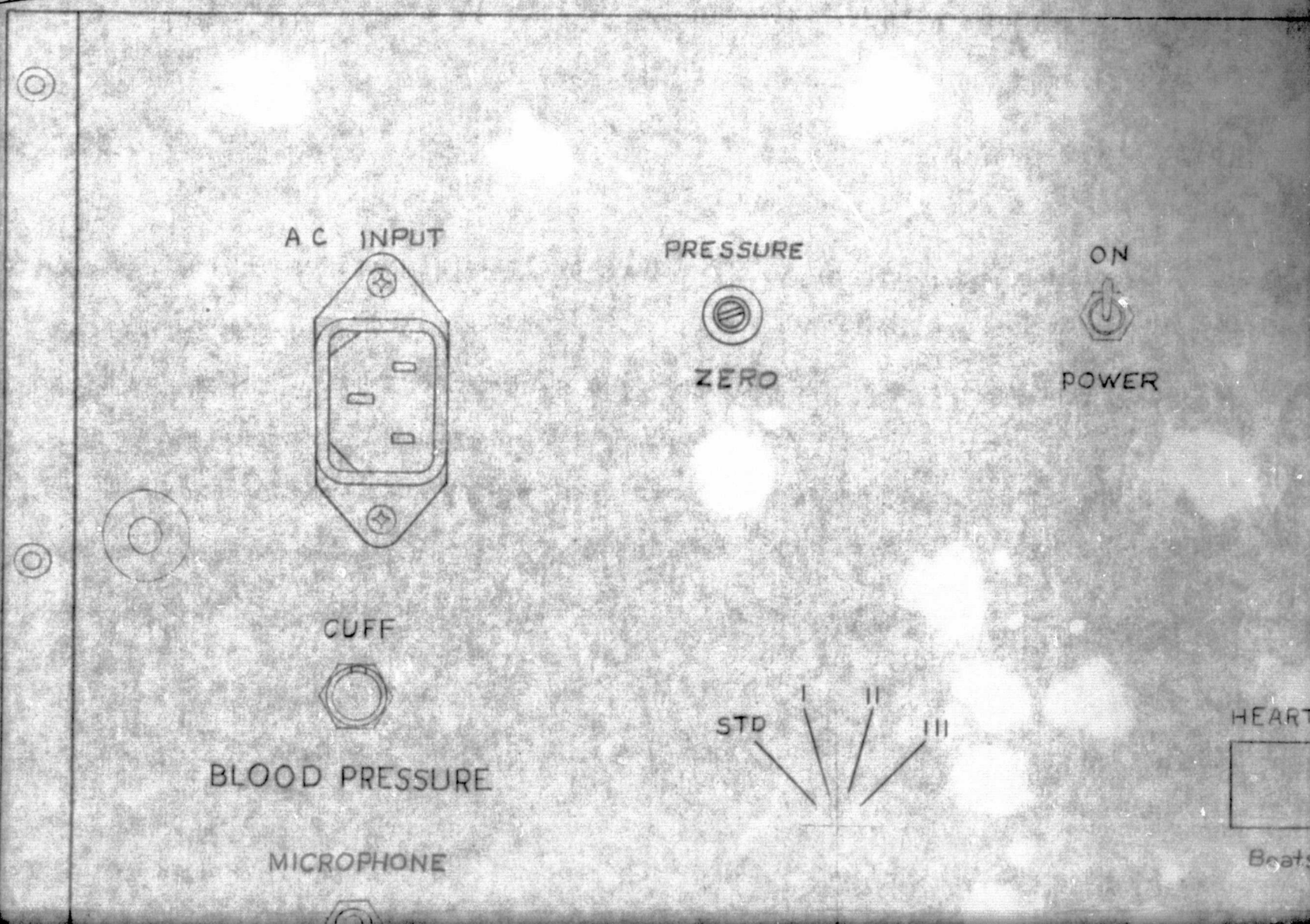
SHEET 2 OF

QTY REQD -4	-3	-2	-1	PART NO.	DESCRIPTION	SPEC. OR MFG.	REF. DES.	ITEM NO.
			9	128231-1104	SCREW, P.H. #4:40 1/4 Lg			27
			9	128231-1105	SCREW, P.H. #4-40 5/16 Lg			28
			4	128231-1106	SCREW, P.H. #4-40 3/8 Lg			29
			24	128231-6104	SCREW, F.H #4:40 1/4 Lg			30
			6	128231-6106	SCREW, F.H #4:40 3/8 Lg			31
			2	128233-1100	WASHER, FLAT #4			32
			20	128233-2100	WASHER, LOCK #4			33
			8	128232-2100	NUT, LOCK #4:40			34
								35
								36
			4	128251-6104	SCREW, F.H #6:32 1/2 Lg			37
			6	128251-6106	SCREW, F.H #6:32 3/8 Lg			38
			2	128252-2100	NUT, LOCK #6:32			39
								40
								41
								42
			1		RESISTOR			43
			1		POTENTIOMETER			44
			1		KNOB			45
			1					46
								47

TELECARE INC.

SIZE	DWG NO.	REV.
A	PL 601783	

SHEET 3 OF



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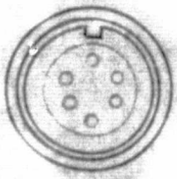
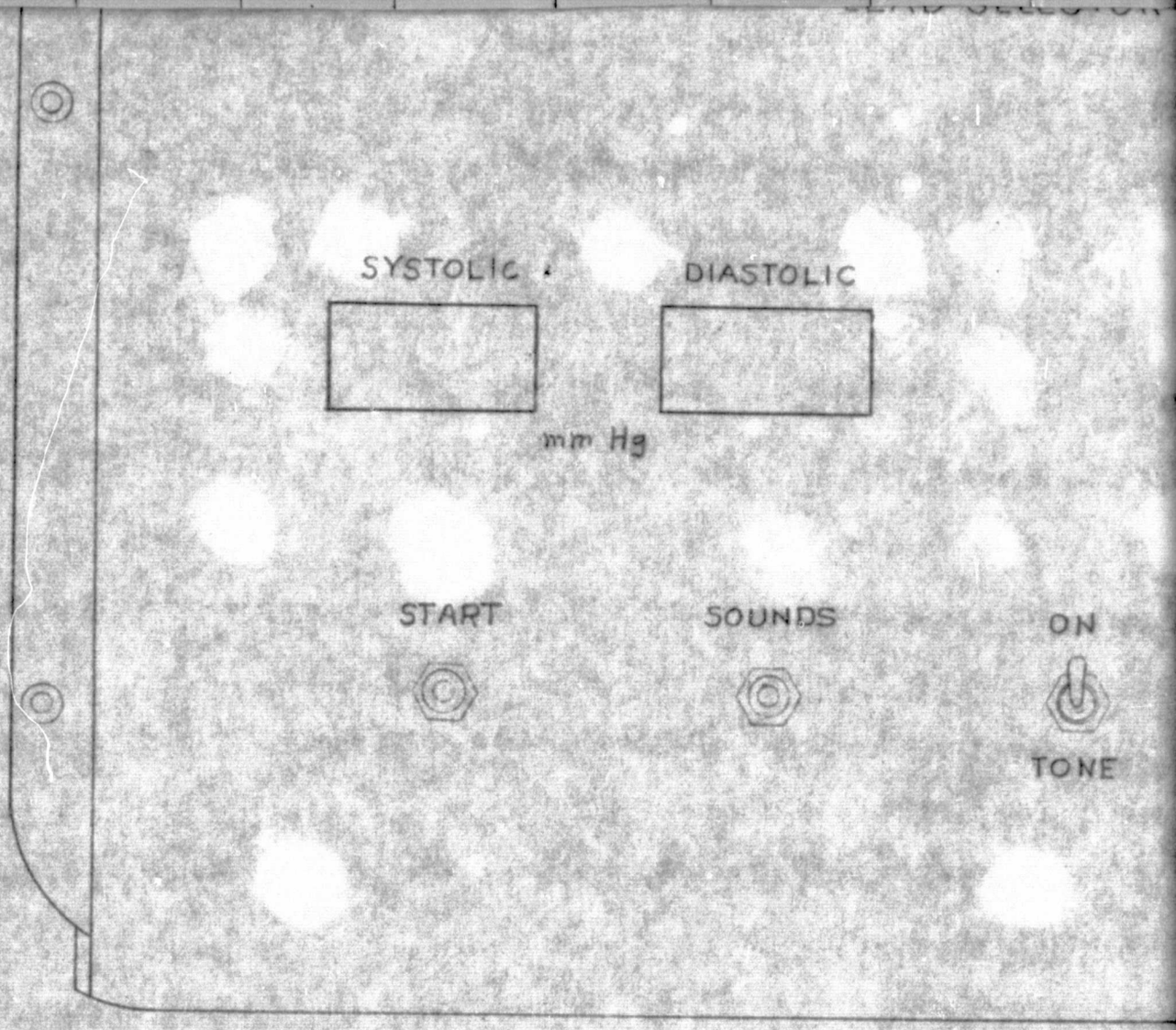


CABLE

HEART RATE

Beats / min



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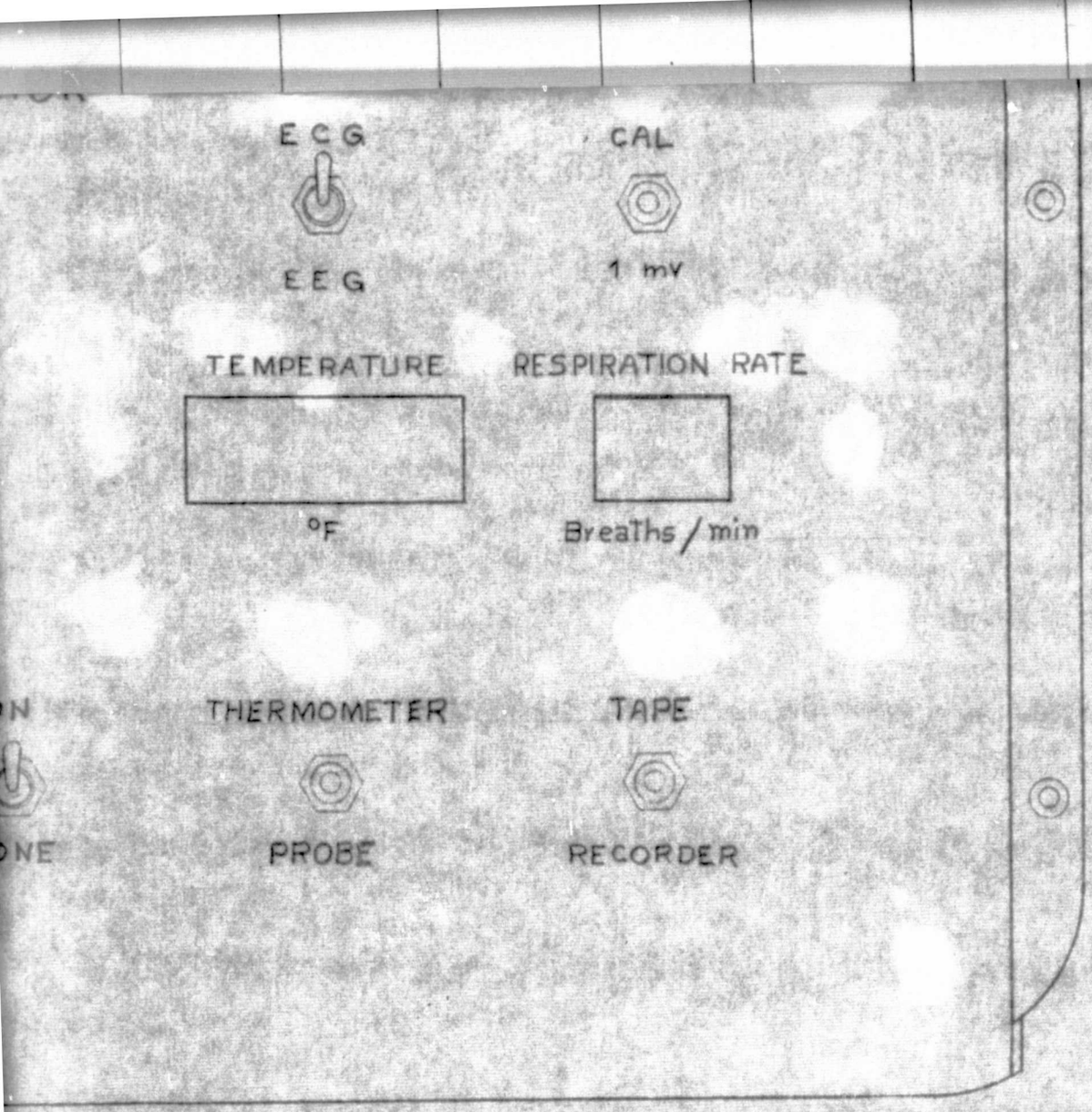

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BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY
DATE

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DATE

APPD BY
DATE

MFG. ENG.
DATE

PROJ. ENG.
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TELECARE INC
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
FRONT PANEL

CODE IDENT	SIZE	PART NO.	REV.

UNIT WT. | SCALE | SH OF

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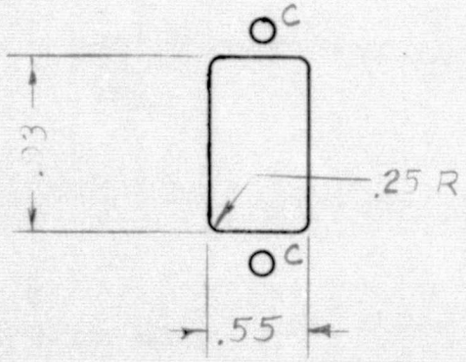

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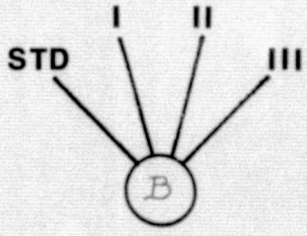

LEAD SELECTOR

HEART

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FOLDOUT FRAME

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PATIENT

CABLE

EART RATE

Beats / min

FOLDOUT FRAME 2

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HOLE SCHEDUL		
SYM	NO	DESC
A	10	.261 DIA
B	2	.386 DIA

REVISIONS			
REV.	DESCRIPTION	DATE	APPD

FOLDOUT FRAME 3

HOLE SCHEDULE		
SYM	NO	DESC.
A	10	.261 DIA
B	2	.386 DIA

NOTE

1. 5 SQUARES TO BE CLEAR

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DIASTOLIC

mm Hg

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TELECARE INC.

8575 MOSLEY ROAD, HOUSTON, TEXAS 77034 • (713) 944-5753

11.45

FOLDOUT FRAME 5

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EEG

Ⓐ

1 mv

TEMPERATURE

°F

RESPIRATION RATE

Breaths / min

THERMOMETER

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PROBE

TAPE

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RECORDER

AW 601784

FOLDOUT FRAME

-4	-3	-2	-1
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BREAK ALL SHARP CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS SPECIFIED.
.XXX = ±.010
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SURFACE FINISH

MATERIAL

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APPLICATION	

C	2	.140 DIA
D	1	.875 DIA

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BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
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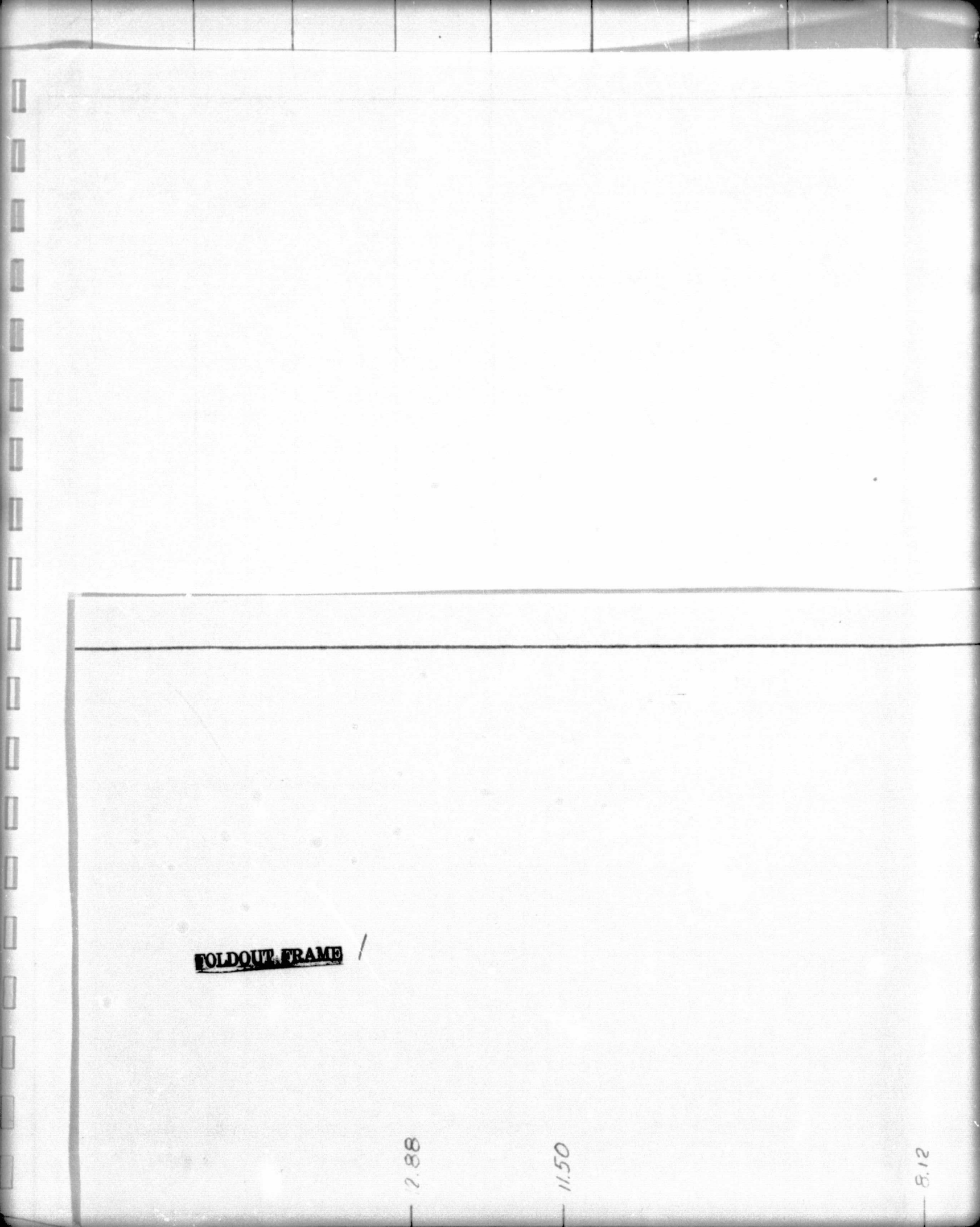
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

MOUNTING PANEL

CODE IDENT	SIZE	PART NO.	REV.
		AW601784	
UNIT WT.		SCALE 1/1	SH 1 OF


FOLDOUT FRAME 1
2.88
11.50
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REV.	

FOLDOUT FRAME 2

4.75

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REVISIONS			
REV.	DESCRIPTION	DATE	APPD

FOLDOUT FRAME 3

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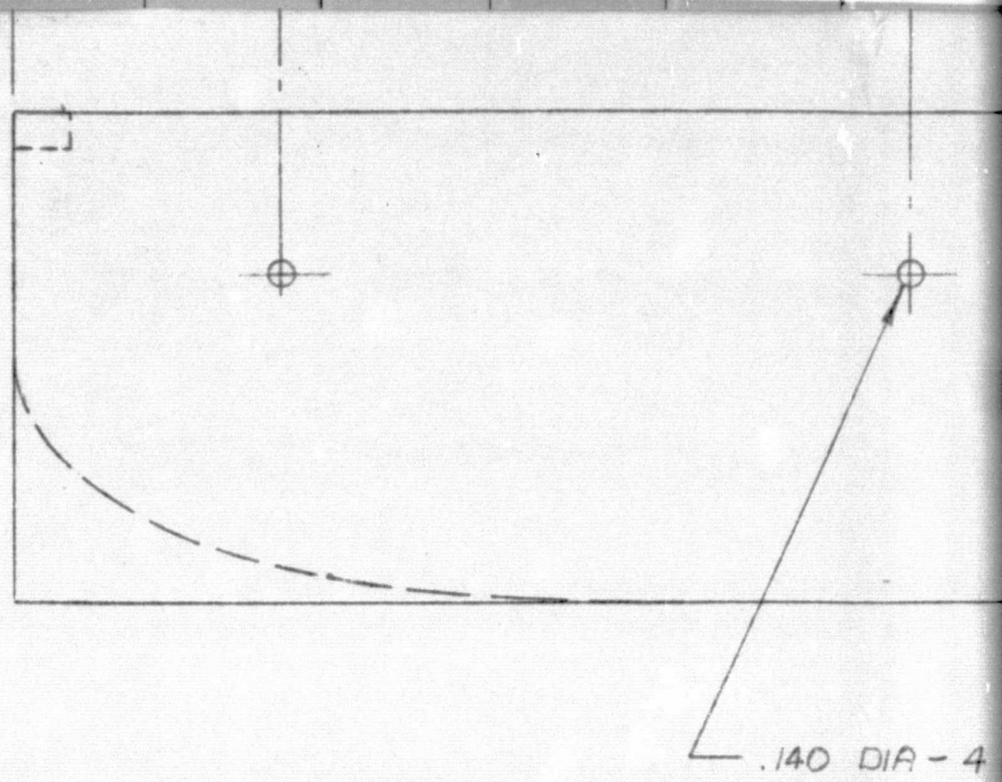

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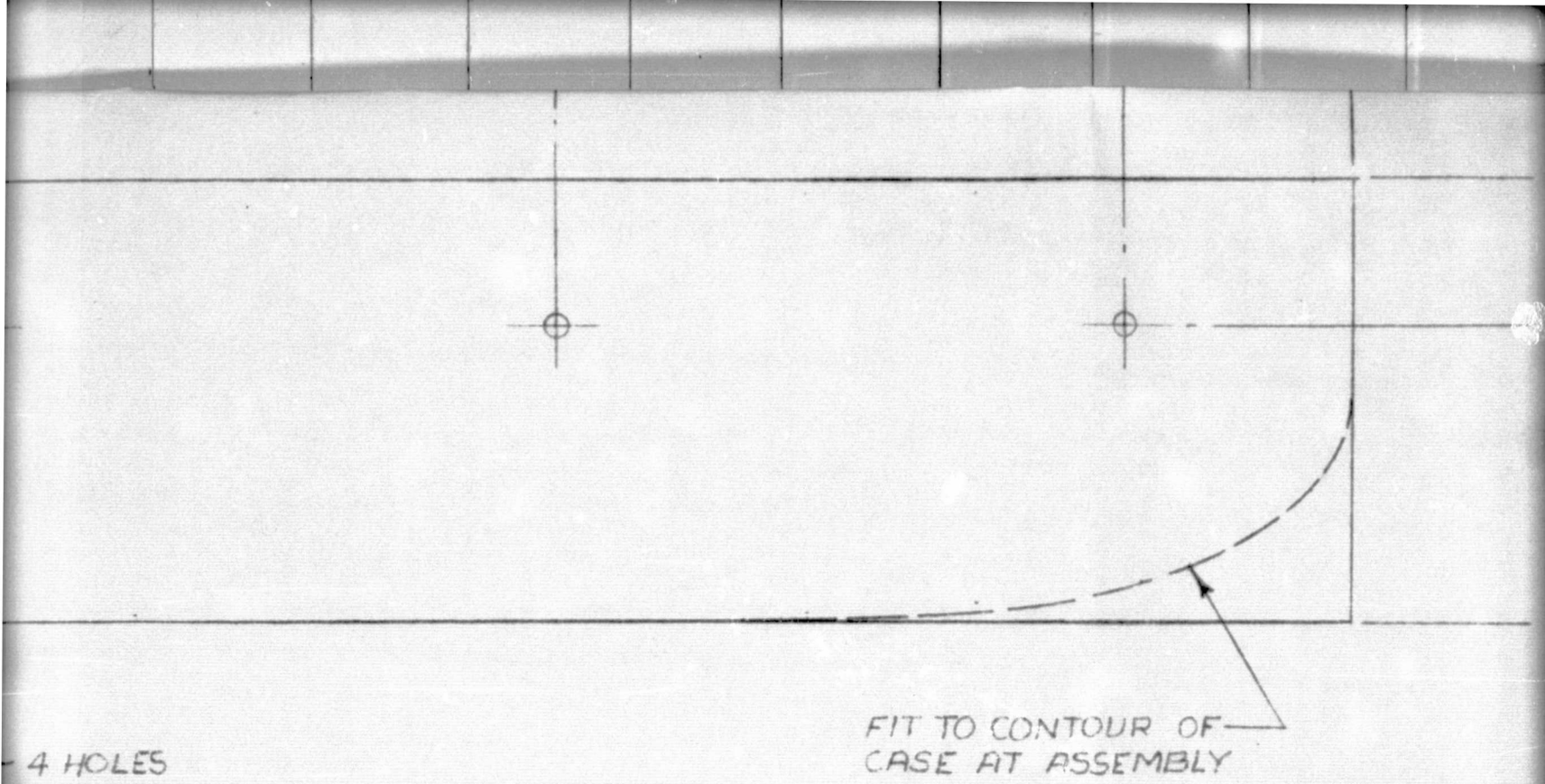

- 4 HOLES

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION

BILL OF MATERIAL

FOLDOUT FRAME 5

USED ON	NEXT ASS'Y
APPLICATION	

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL
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CODE IDENT

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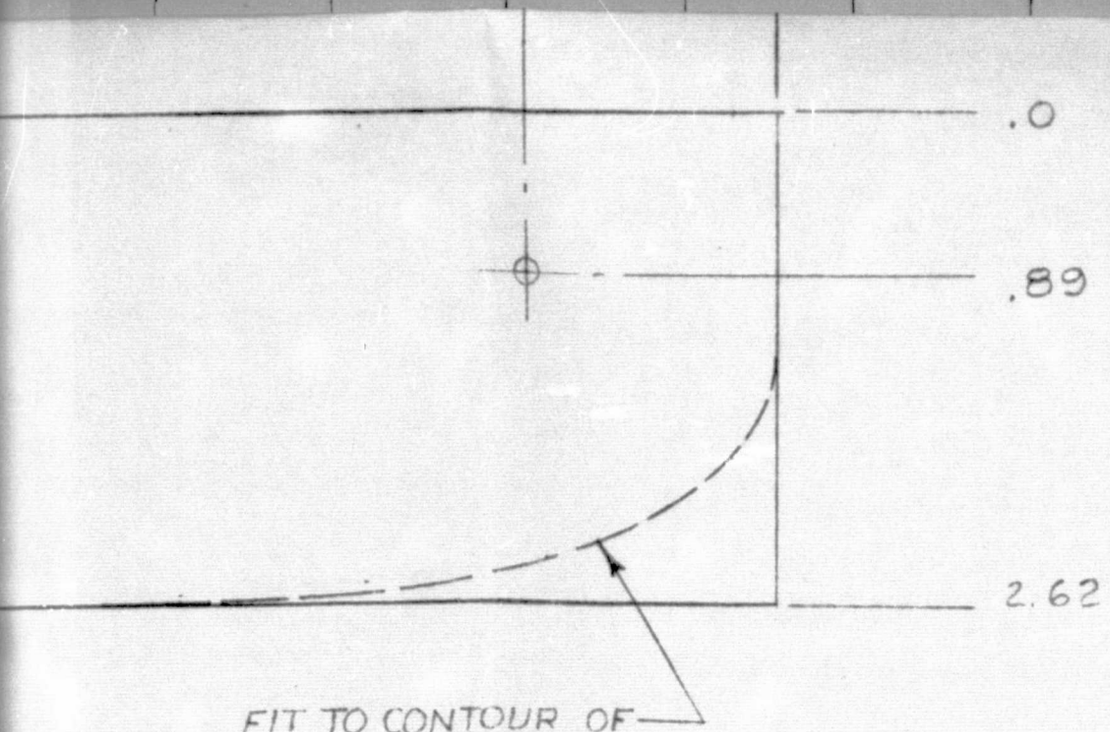

FOLDOUT FRAME 6

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL
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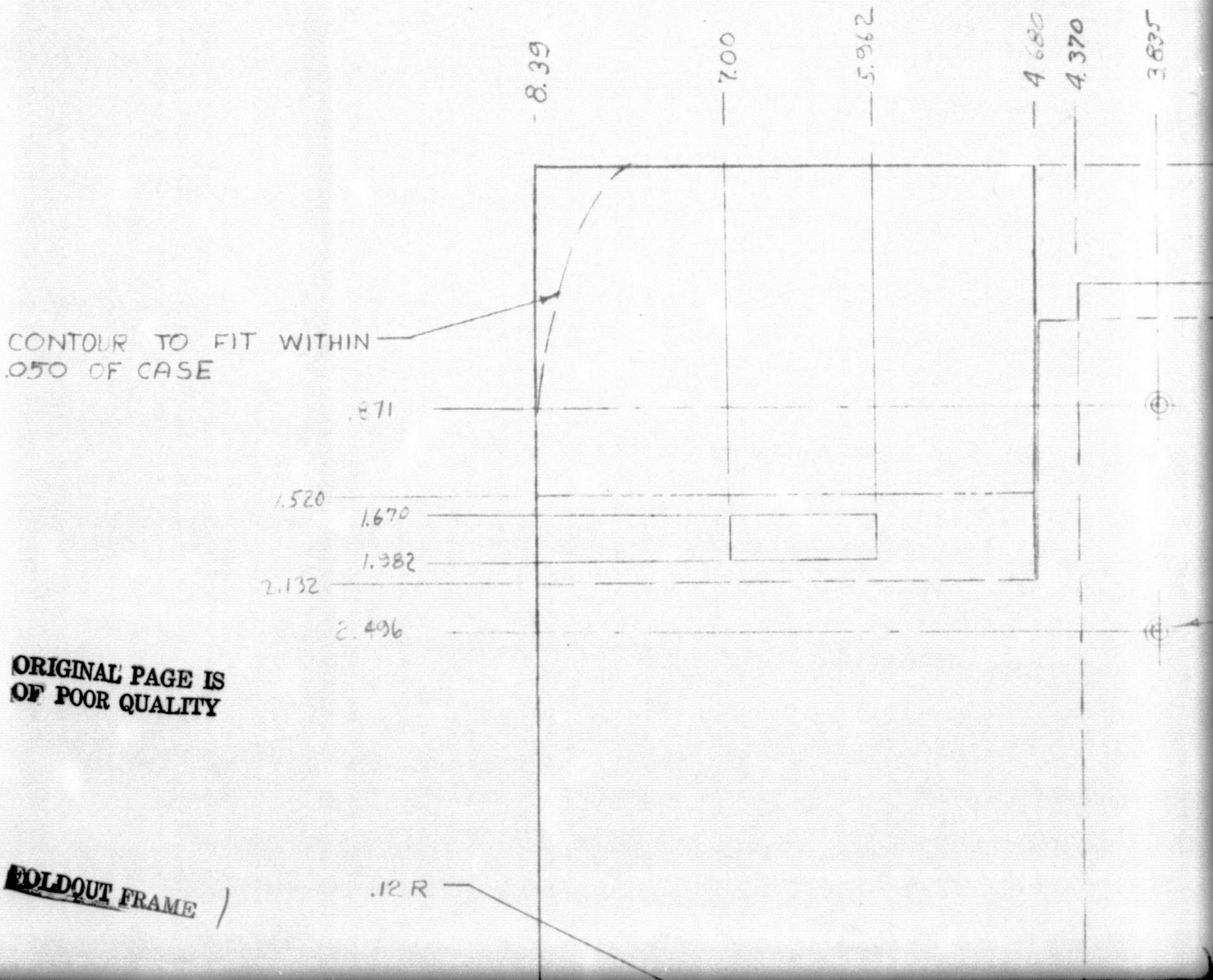
FINISH

DWN BY HAS
DATE 4-18-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE

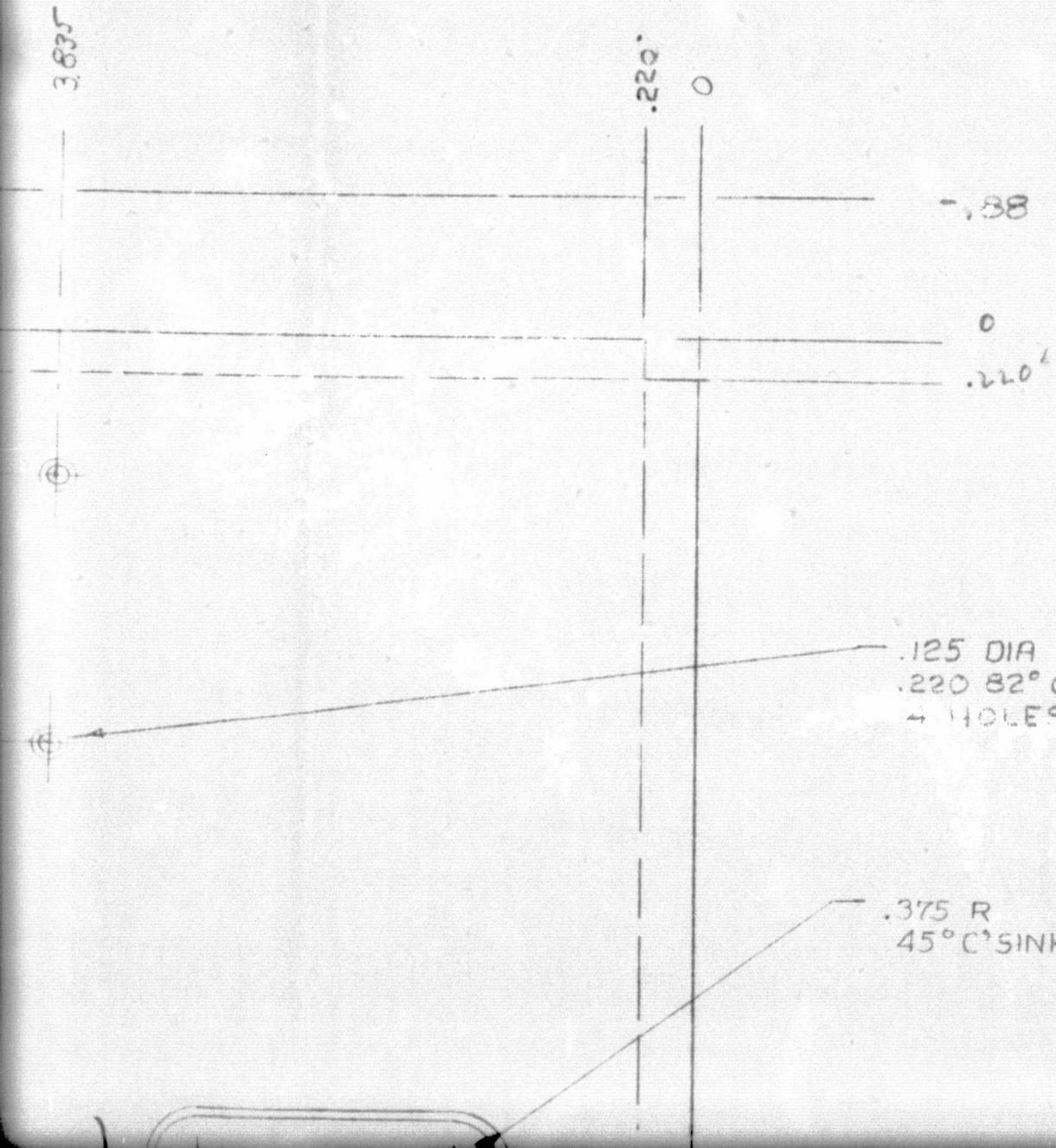
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

END PLATE

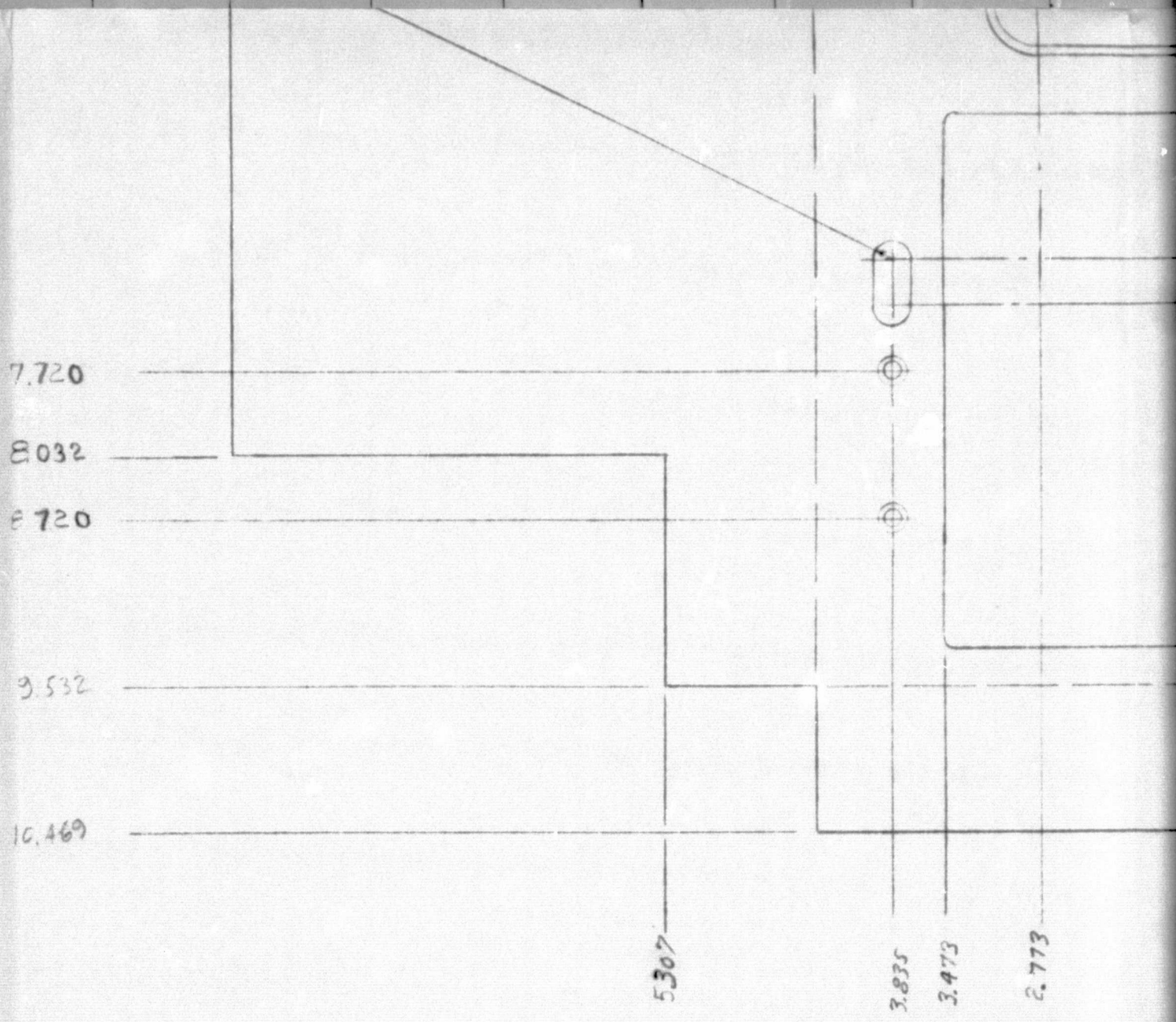
CODE IDENT	SIZE	PART NO. 501487	REV.
UNIT WT.		SCALE 1:1	SH 1 OF 1



REV.	DES



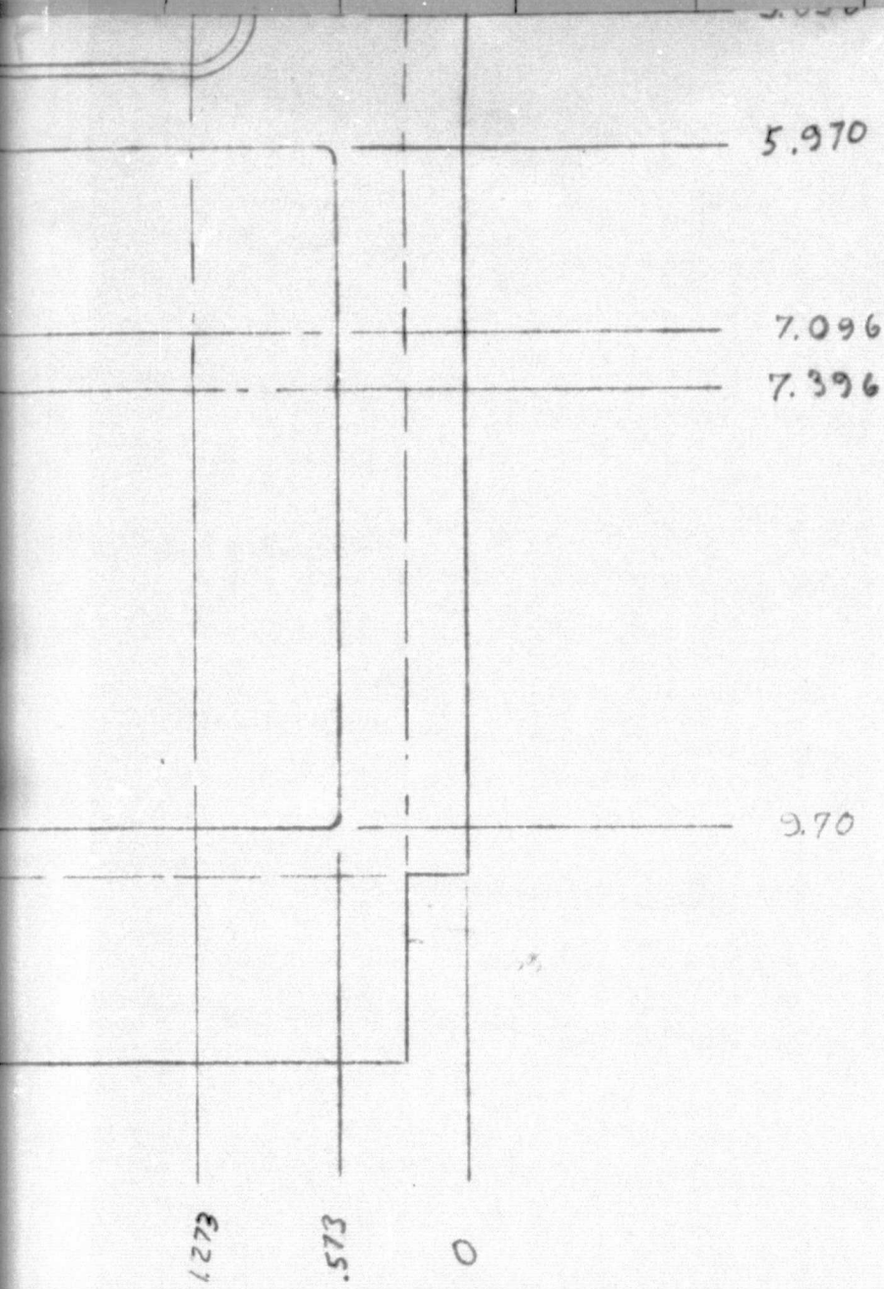
FOLDOUT FRAME 2



FOLDOUT FRAME 3

USED ON

APPLICATI



FOLDOUT FRAME

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. O MATERIAL

BILL OF MATERIAL

FOLDOUT FRAME 4

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 4-22-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE

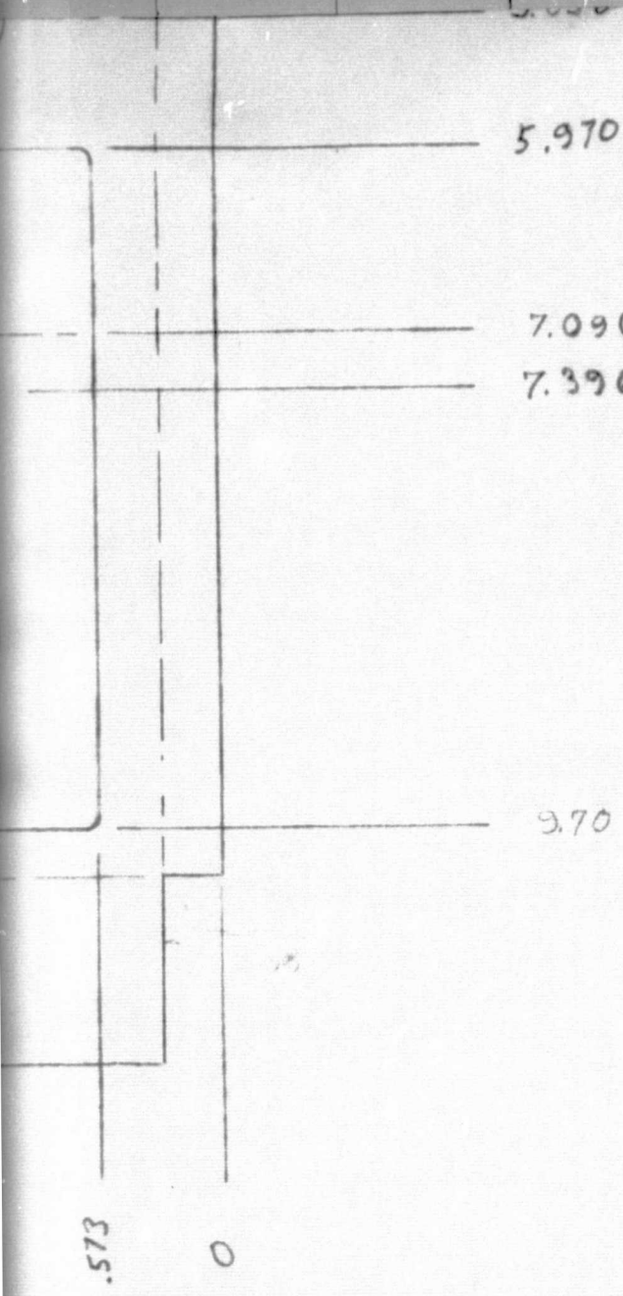
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TE

RECORDER MOUNT

CODE IDENT	SIZE	PART NO. 601785
UNIT WT.		SCALE 1/1 SH 1

NEXT ASS'Y

CATION



FOLDOUT FRAME

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

4

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

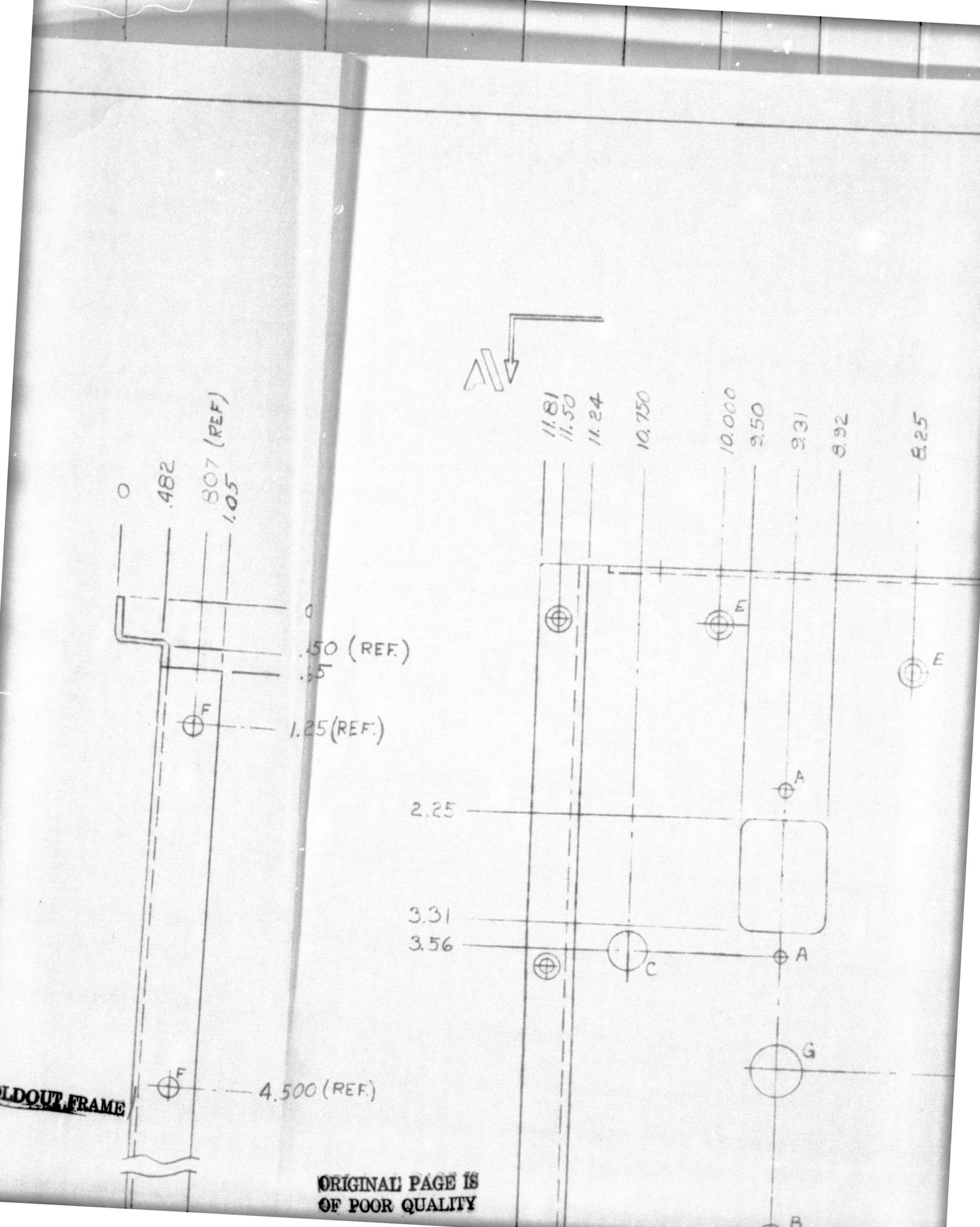
FINISH

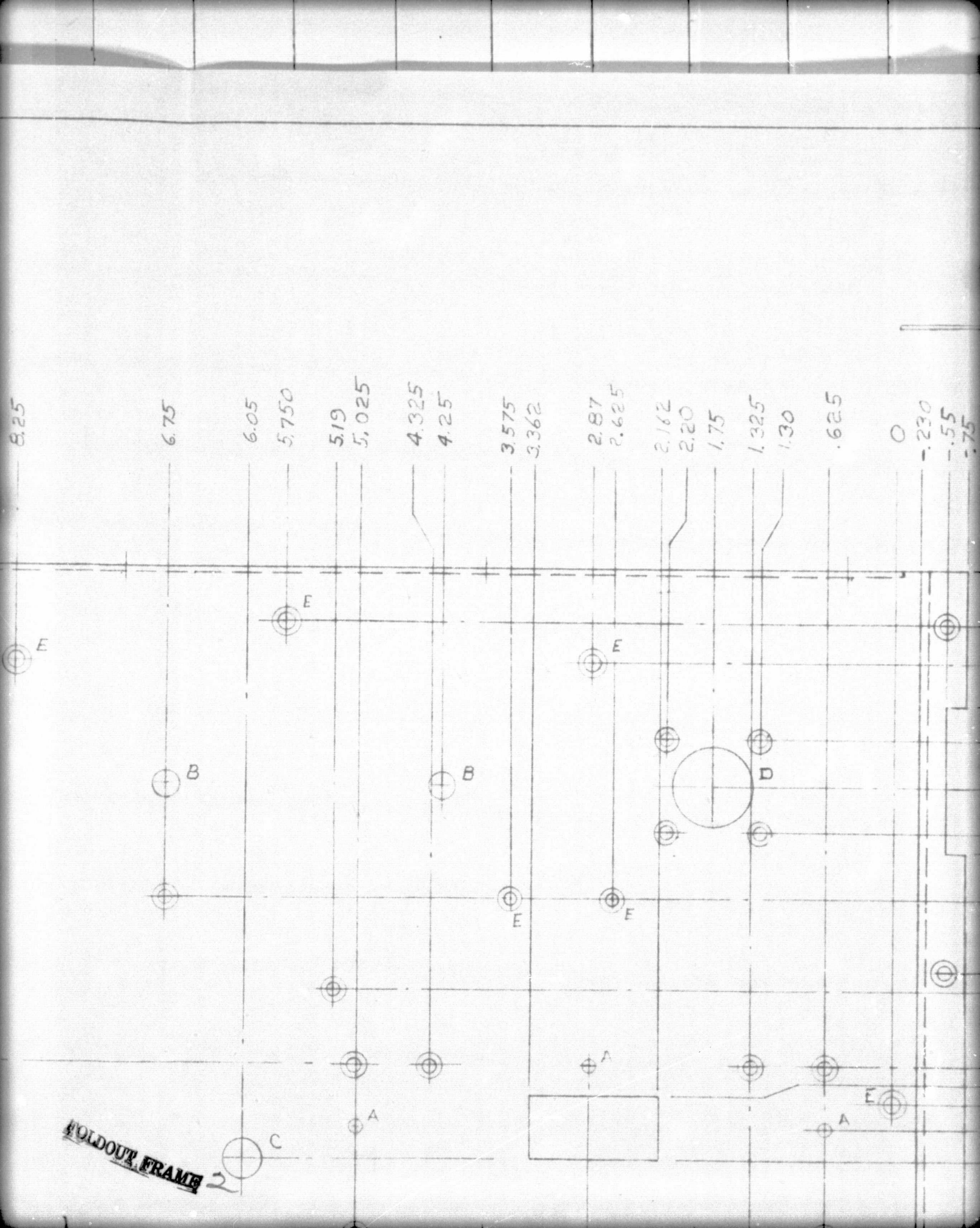
DWN BY HAS
DATE 4-22-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE

TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

RECORDER MOUNT

CODE IDENT	SIZE	PART NO. 601785	REV.
UNIT WT.		SCALE 1:1	SH 1 OF 1




8.25
6.75
6.05
5.750
5.19
5.025
4.325
4.25
3.575
3.362
2.87
2.625
2.162
2.20
1.75
1.325
1.30
.625
0
-.230
-.55
-.75
E
B
D
A
C
FOLDOUT FRAME 2

REVISIONS	
REV.	DESCRIPTION

.75

0

.500

.87

1.25

1.55

2.00

2.45

2.62

3.06

FOLDOUT FRAME

3.75

3.93

4.625

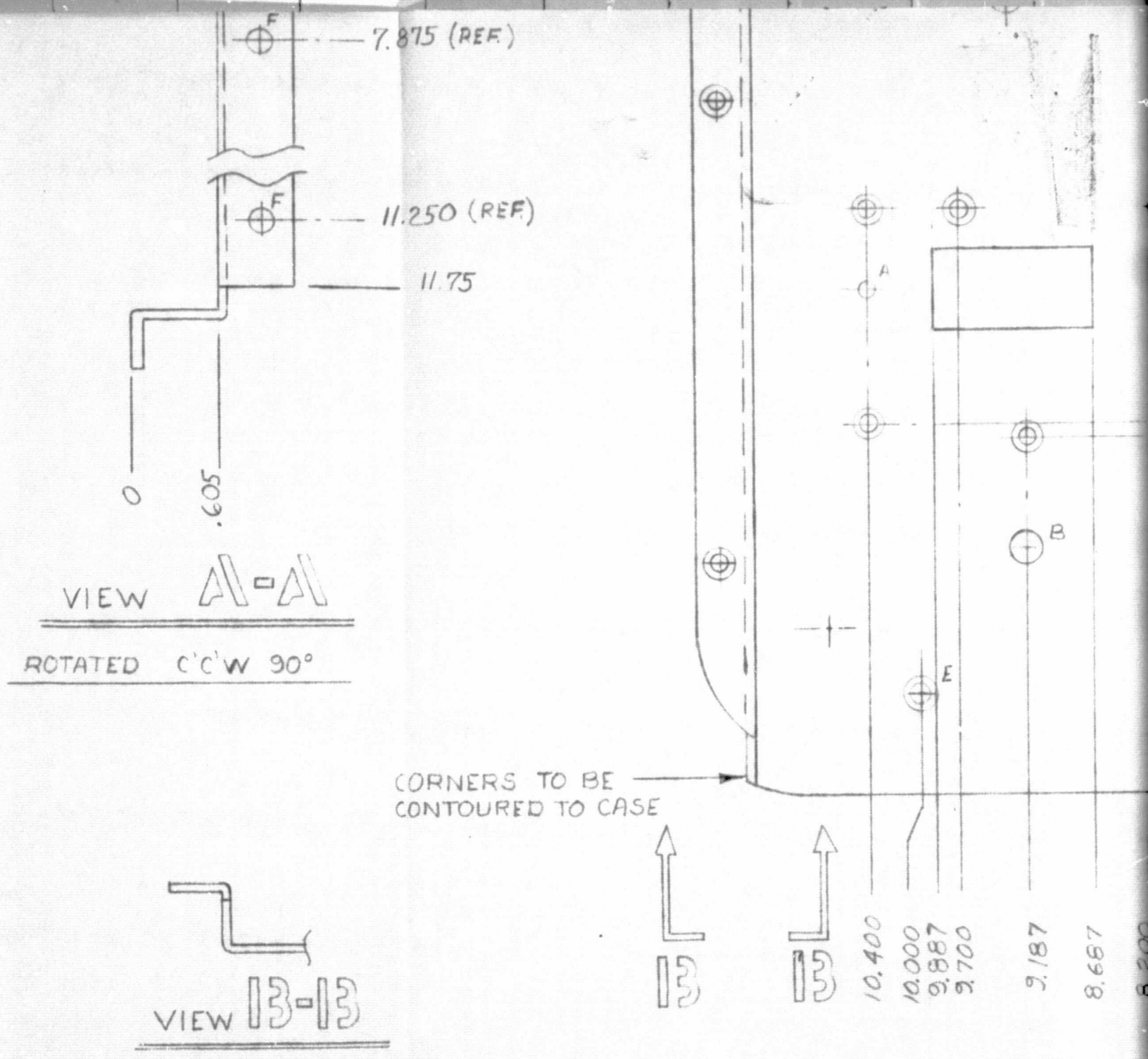
4.912

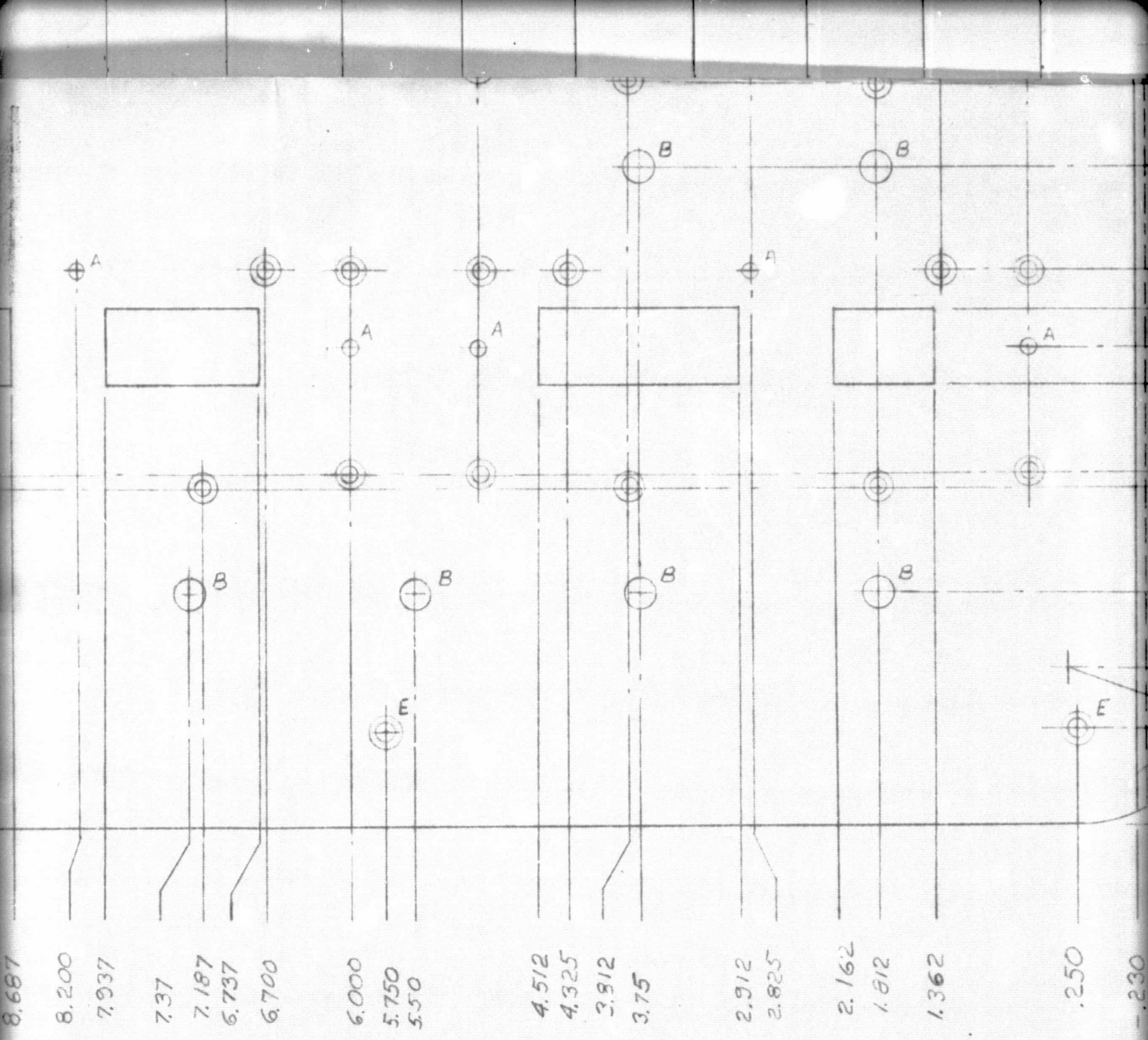
5.000

5.212

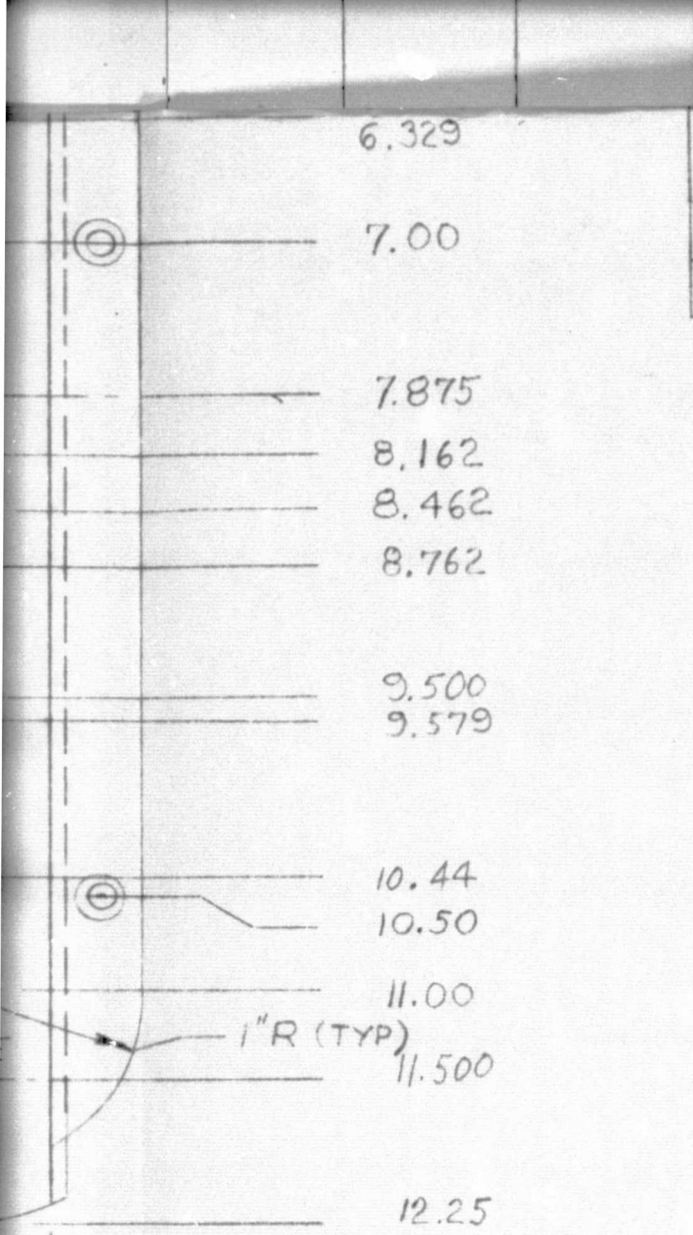
5.512

HOLE SCHEDULE		
SYM	No.	SIZE
A	11	.125 DIA
B	10	.250 DIA
C	2	.375 DIA
D	1	.875 DIA
E	8	.144 DIA 270 82° C'SINK





FOLDOUT FRAME 5



~	40	.125 DIA .220 82° C'SINK
F	4	.166 DIA
G	1	.500 DIA

1 LOCATE AT ASS'Y FROM

FOLDOUT FRAME 6

-4	-3	-2	-1	QTY REQD	PART NO.	DESCRIPTION

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL
.080 5052 H34 AL

FINISH

DWN BY HAS
DATE 4-15-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE

TELECARE INC.
8575 MOSLEY D

MOUNTING

CODE IDENT	SIZE	PART NO.
		6

UNIT WT. SCALE 1

USED ON	NEXT ASS'Y
	601783

APPLICATION

~	40	.125 DIA .220 82° C'SINK
F	4	.166 DIA
G	1	.500 DIA

1 LOCATE AT ASS'Y FROM 501487

FOLDOUT FRAME 2

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL
.080 5052 H34 AL

FINISH

DWN BY HAS
DATE 4-15-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE

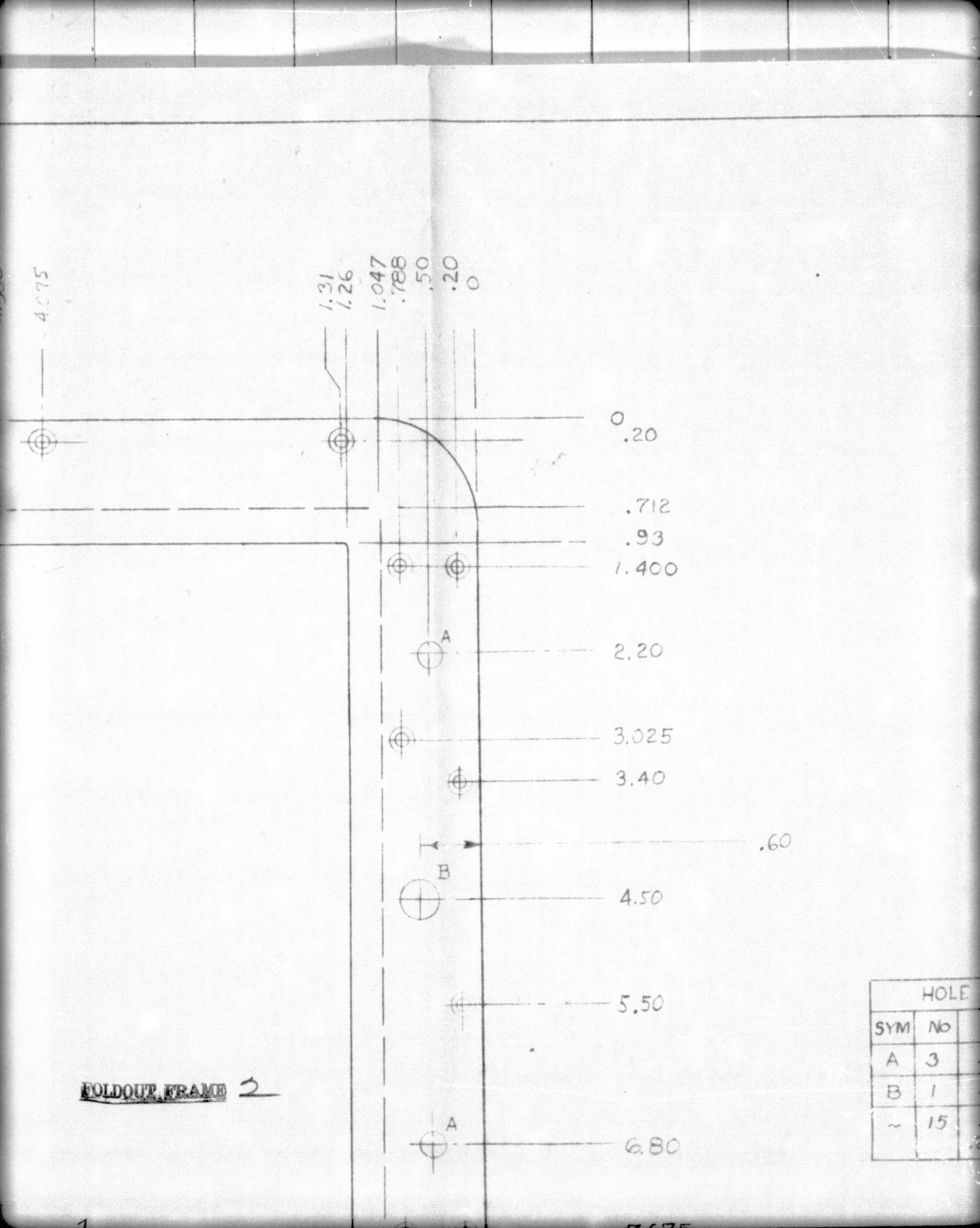
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

MOUNTING PLATE

CODE IDENT	SIZE	PART NO.	REV.
		601788	

UNIT WT. SCALE 1:1 SH 1 OF 1

6.00



HOLE	
SYM	No
A	3
B	1
~	15

FOLDOUT FRAME 2

REVISIONS			
REV.	DESCRIPTION	DATE	APPD

0
.20

.712
.93
1.400

2.20

3.025

3.40

.60

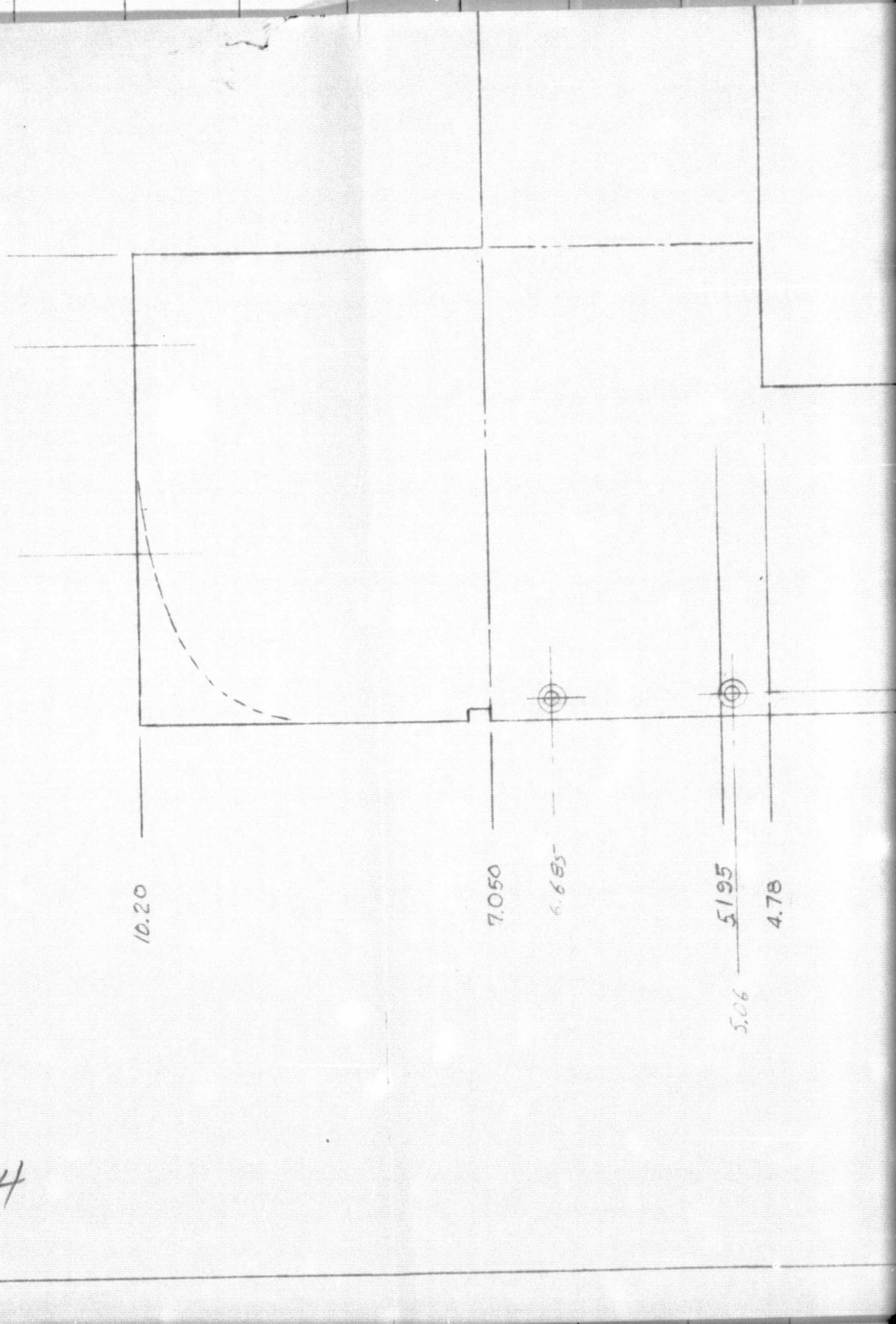
4.50

FOLDOUT FRAME 5

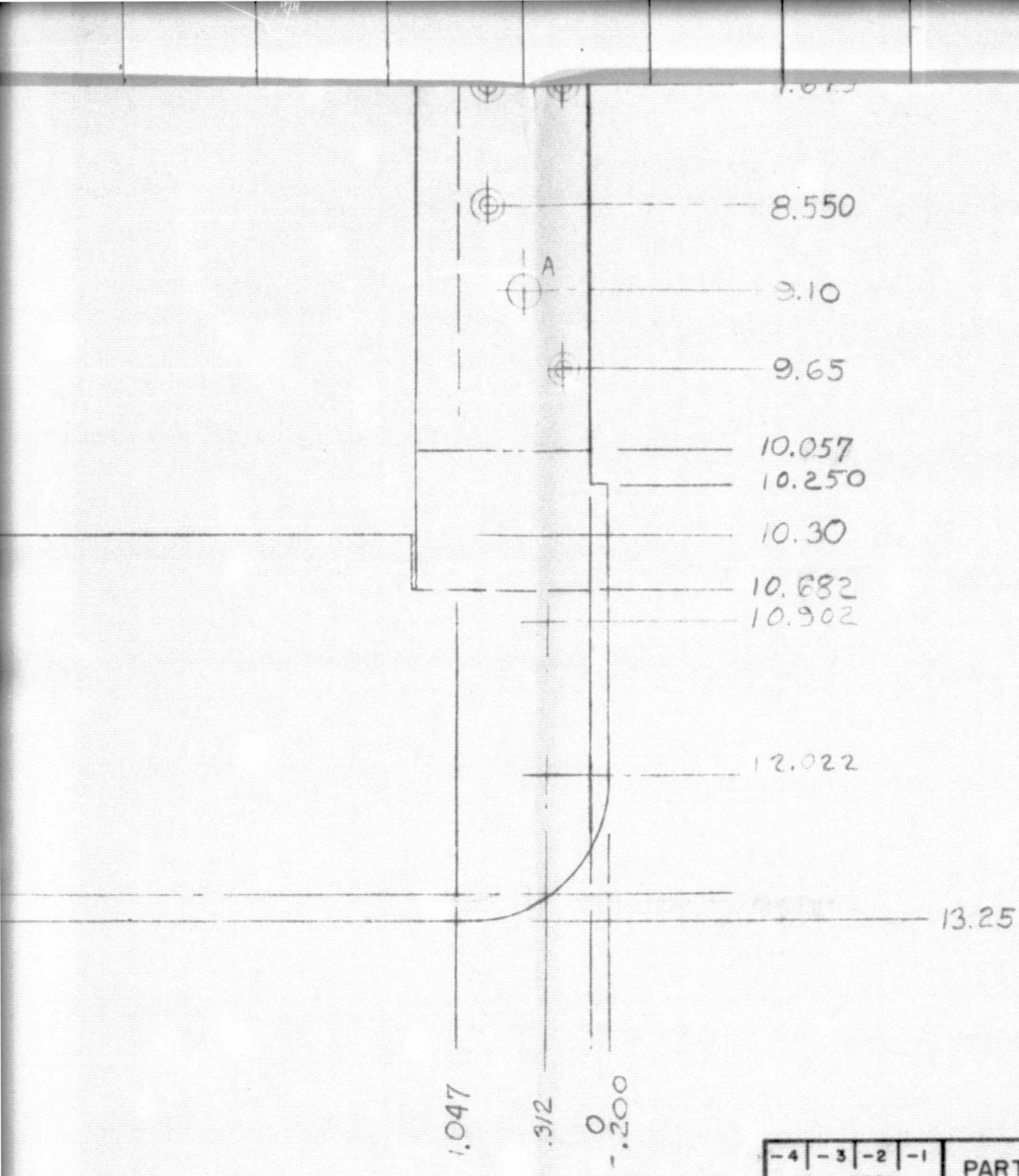
5.50

HOLE SCHEDULE		
SYM	No	DESC.
A	3	.250 DIA.
B	1	.375 DIA.
~	15	.125 DIA .220 82° C'SINK

6.80



FOLDOUT FRAME 4



-4 | -3 | -2 | -1 QTY REQD	PART NO.	DES
		BILL OF

BREAK ALL SHARP EDGES AND CORNERS. DEBURR ALL HOLES.	DWN BY HAS DATE 4-22-75
TOLERANCES UNLESS OTHERWISE SPECIFIED. .XXX = ± .010 .XX = ± .02 .X = ± .1 FRACTIONS ± ANGLES ± SURFACE FINISH RMS	CK BY DATE
	APPD BY DATE
MATERIAL	MFG. ENG. DATE
FINISH	PROJ. ENG. DATE

USED ON	NEXT ASS'Y
APPLICATION	

FOLDOUT FRAME 5

8.550

9.10

9.65

10.057

10.250

10.30

10.682

10.902

12.022

13.25

FOLDOUT FRAME 6

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

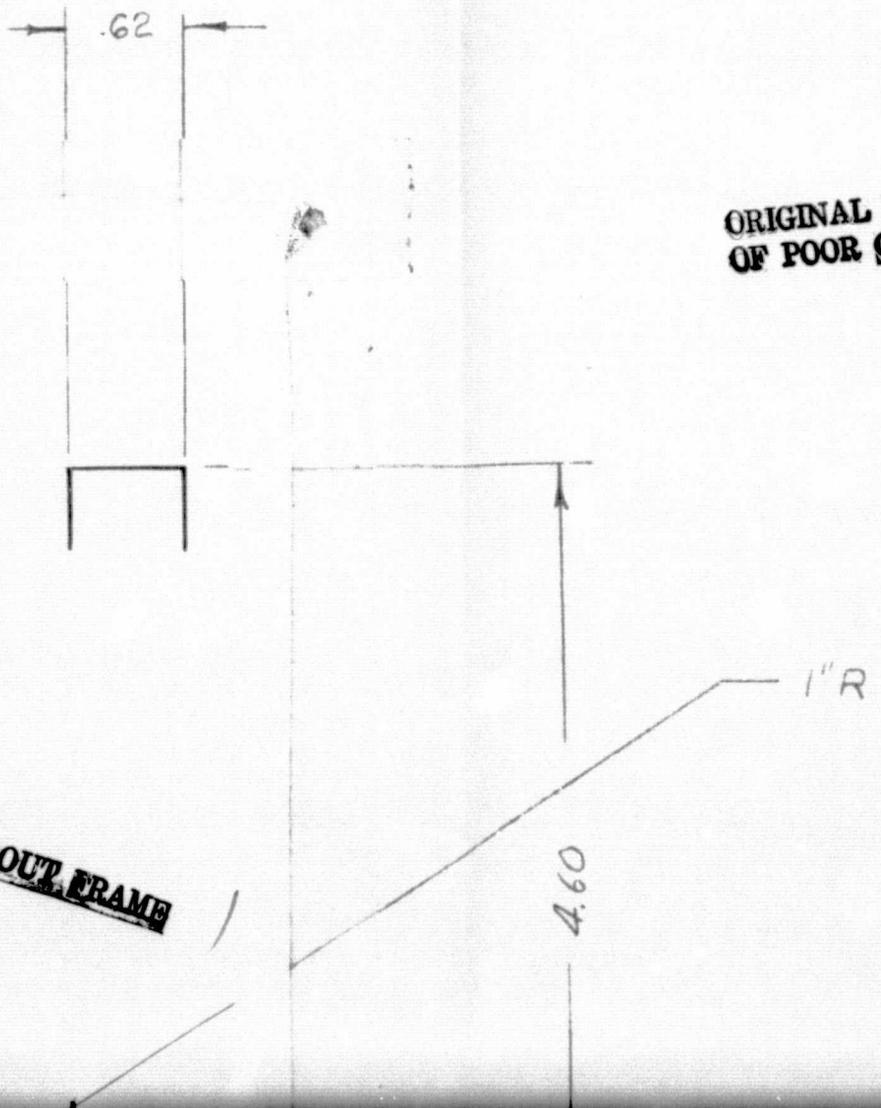
FINISH

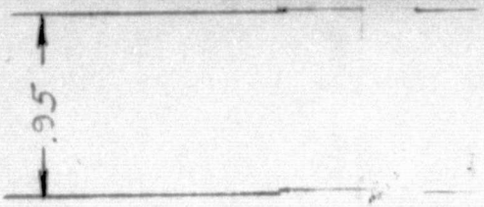
DWN BY HAS
DATE 4-22-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE

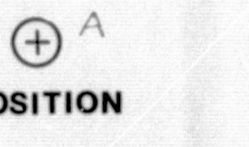
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

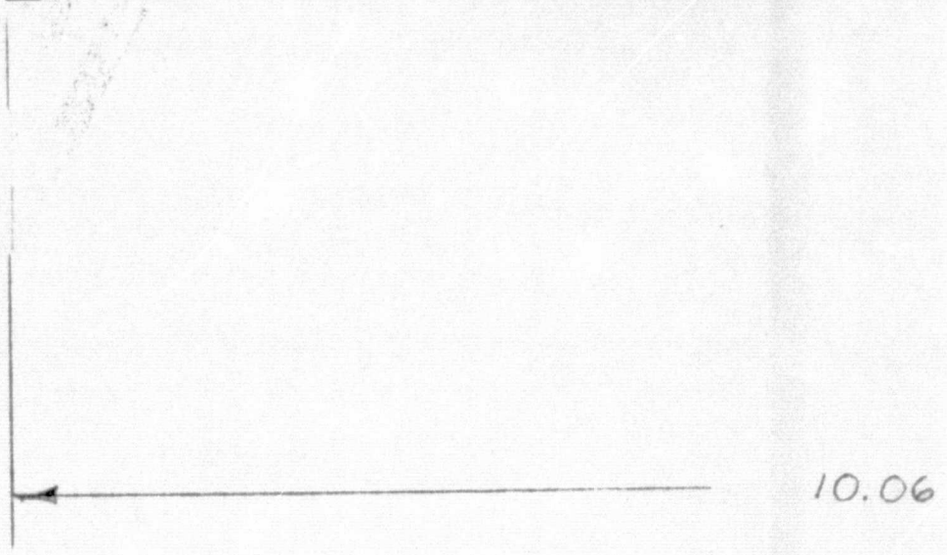
RECORDER PANEL

CODE IDENT	SIZE	PART NO. 601786	REV.
UNIT WT.		SCALE 1:1	SH 1 OF 1

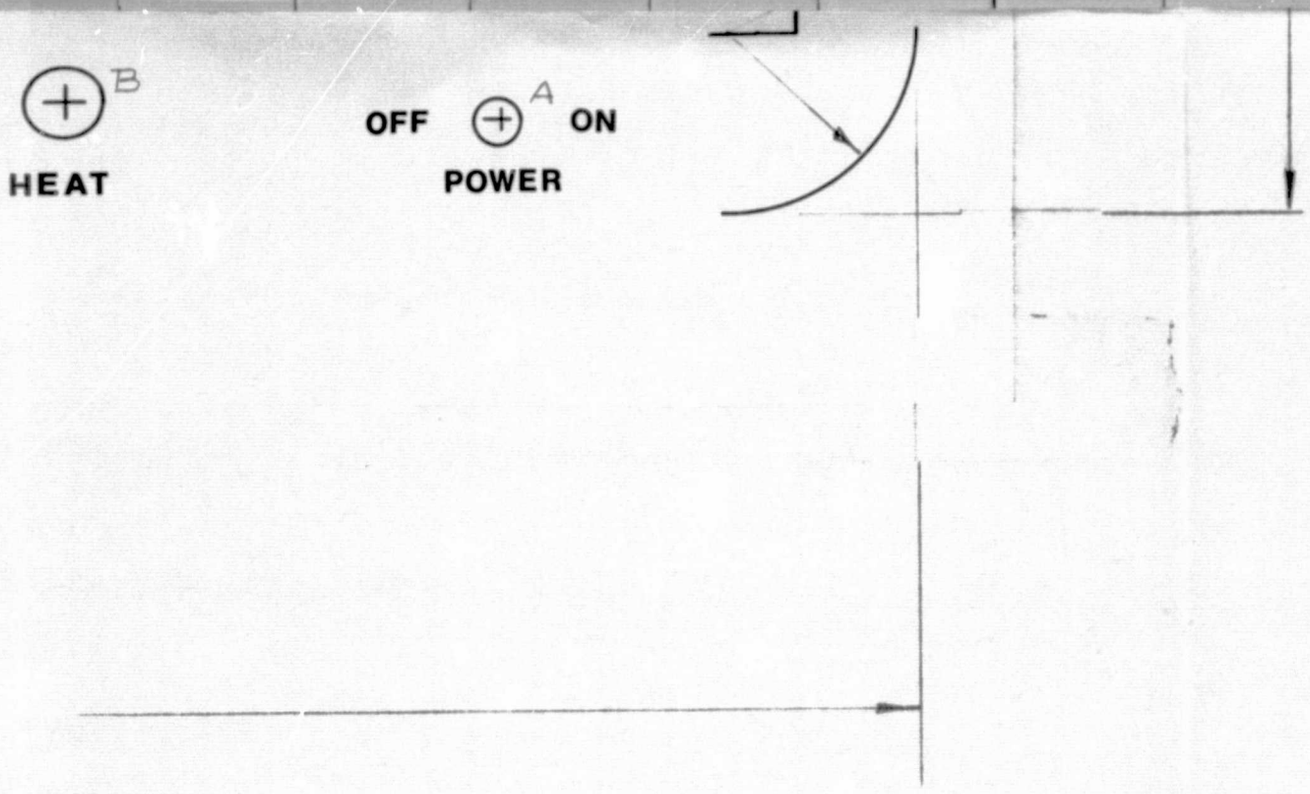








FOLDOUT FRAME 2



-4	-3	-
QTY	RE	

BREAK AL
CORNERS
DEBURR

TOLERANC
SPECIFIED
.XXX = ±.

FRACTION
SURFACE

MATERIAL

FINISH

USED ON	NEXT ASS'Y
APPLICATION	

FOLDOUT FRAME 3

HOLE SCHEDULE		
SYM	No	DESC.
A	3	.260 DIA
B	1	.375 DIA

FOLDOUT FRAME 4

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 4-22-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE
DASH NO -0001

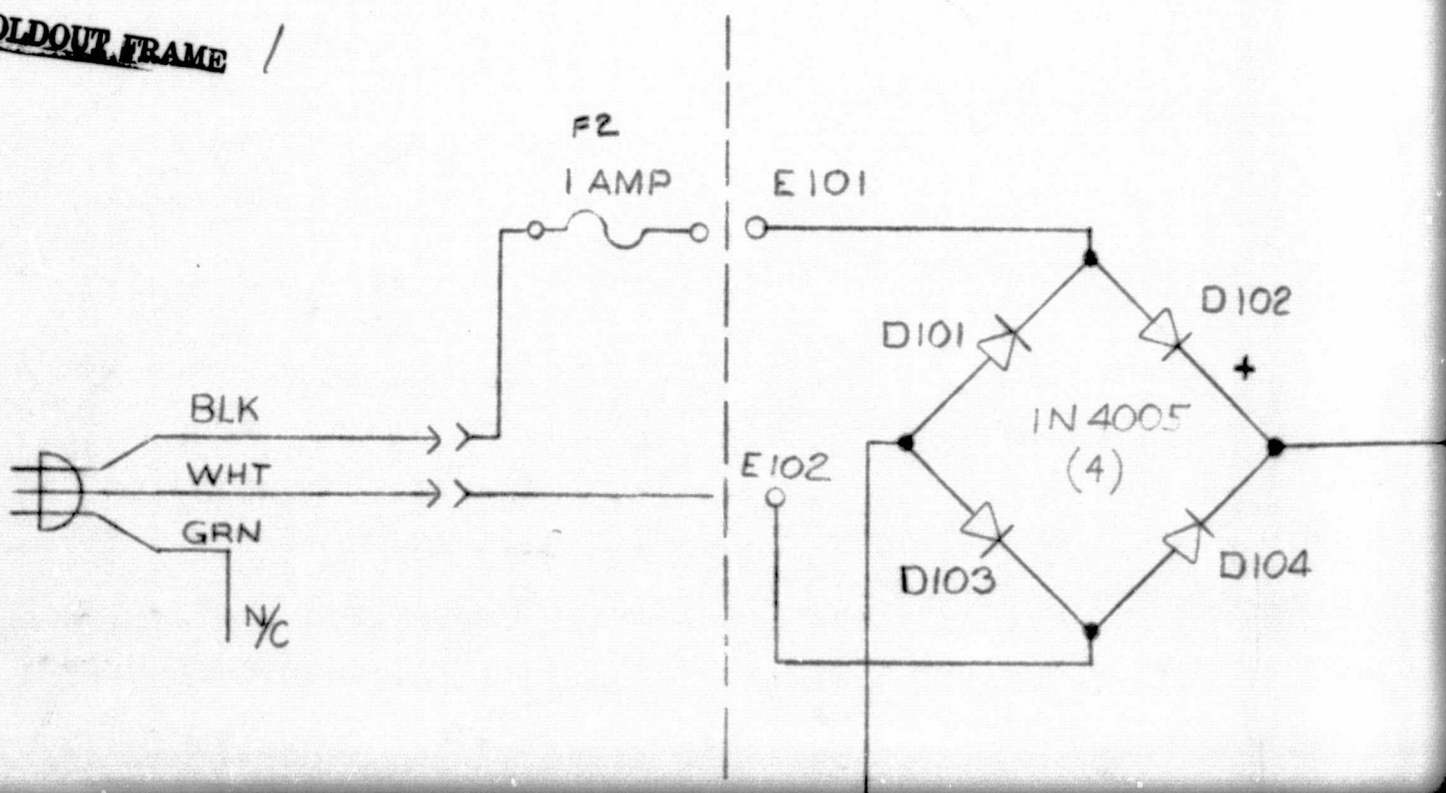
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

RECORDER OVERLAY

CODE IDENT	SIZE	PART NO.	REV.
		AW 601787	

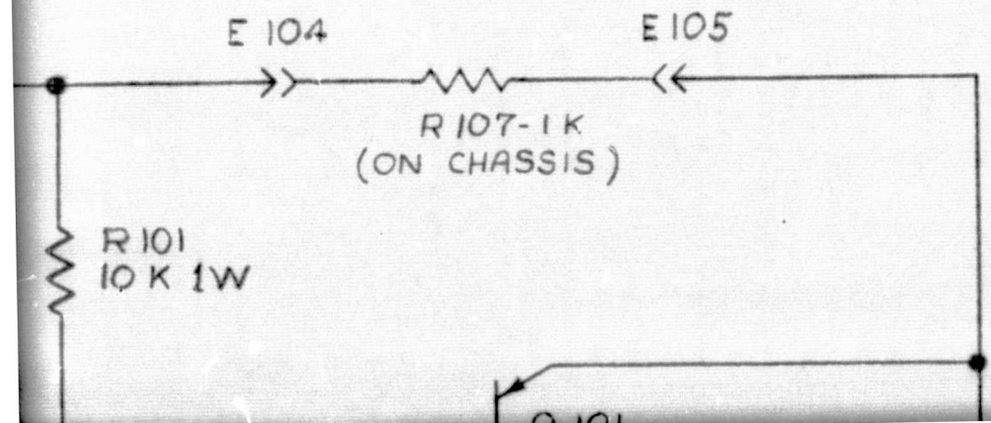
UNIT WT. SCALE 1:1 SH OF

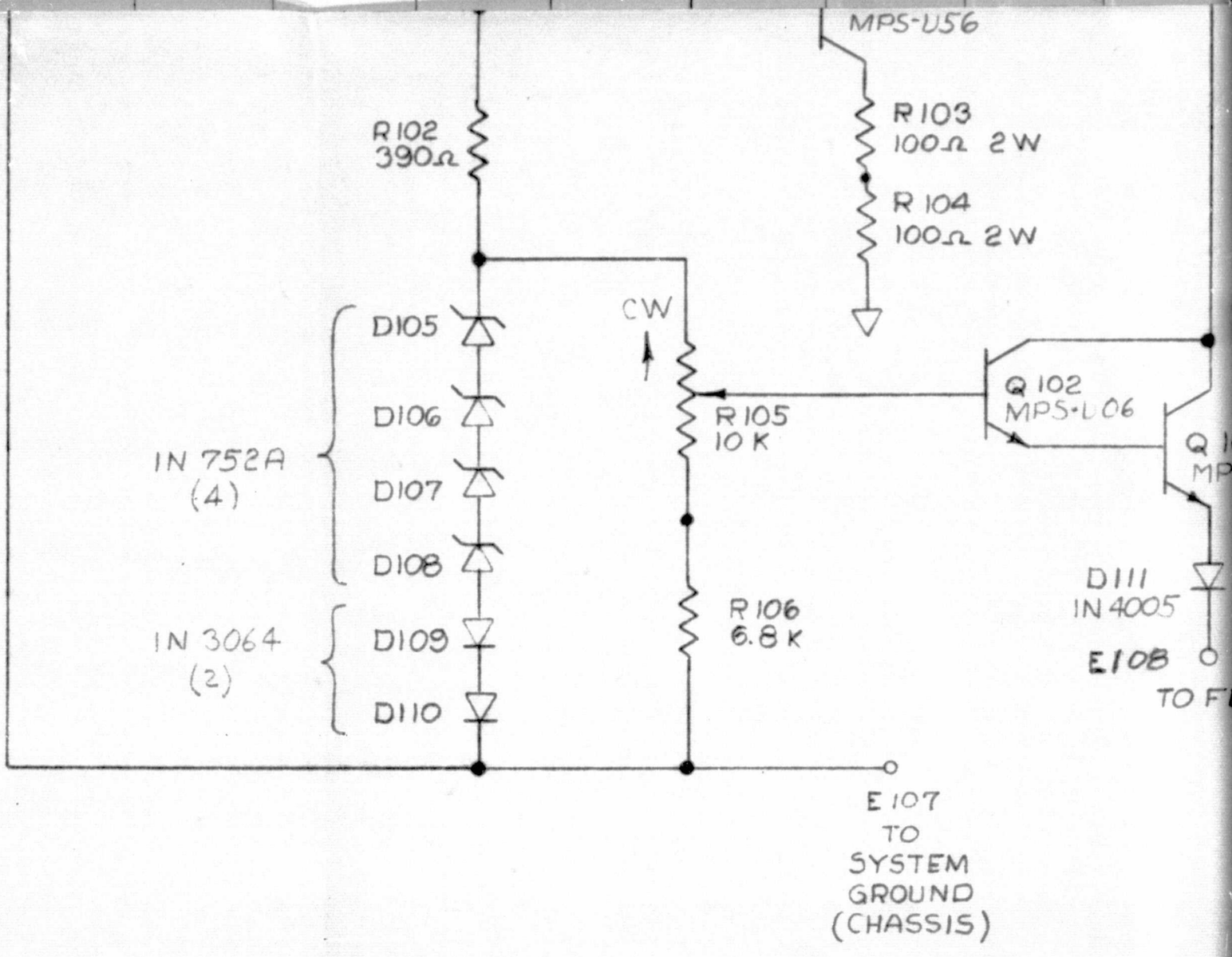
FOLDOUT FRAME /



REV.	

FOLDOUT FRAME 3





GROUP 100

BATTERY CHARGER

-4	-3	-2	-1	P
QTY REQD				

BREAK ALL SHARP
CORNERS.
DEBURR ALL HOLES

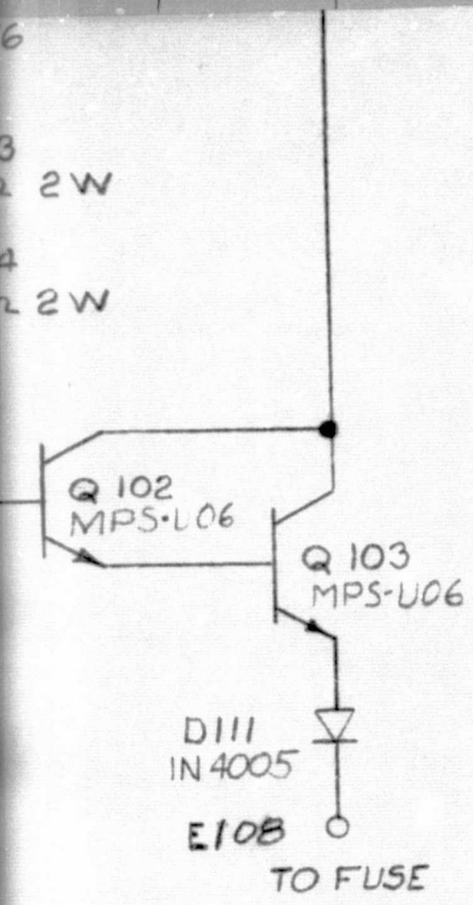
TOLERANCES UNLESS
SPECIFIED.
.XXX = ±.010 .XX =
FRACTIONS ±
SURFACE FINISH

MATERIAL

FINISH

USED ON	NEXT ASS'Y
APPLICATION	

FOLDOUT FRAME 3



FOLDOUT FRAME

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 5-5-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 18 Jul 75

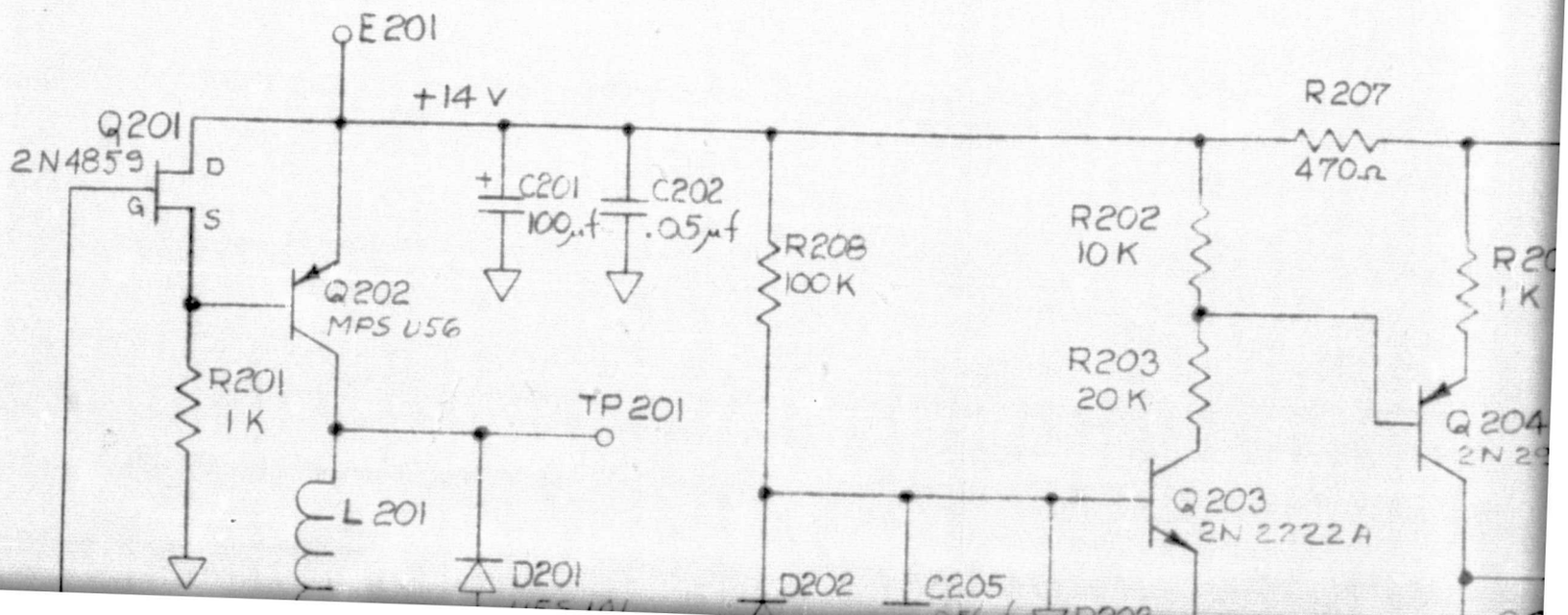
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
GROUP 100

CODE IDENT	SIZE	PART NO.	REV.
	C	501353	

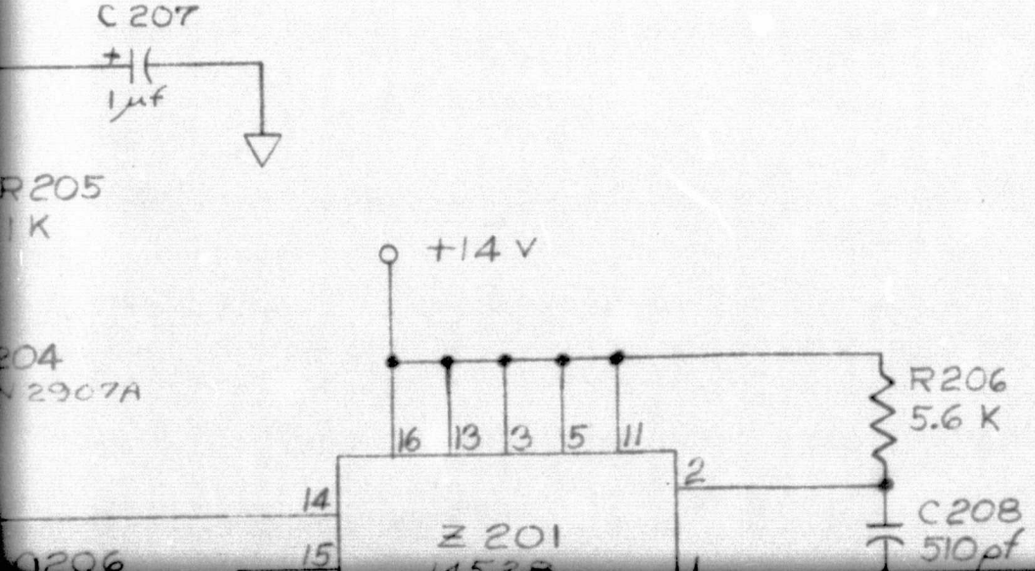
UNIT WT. SCALE ~ SH 1 OF 1

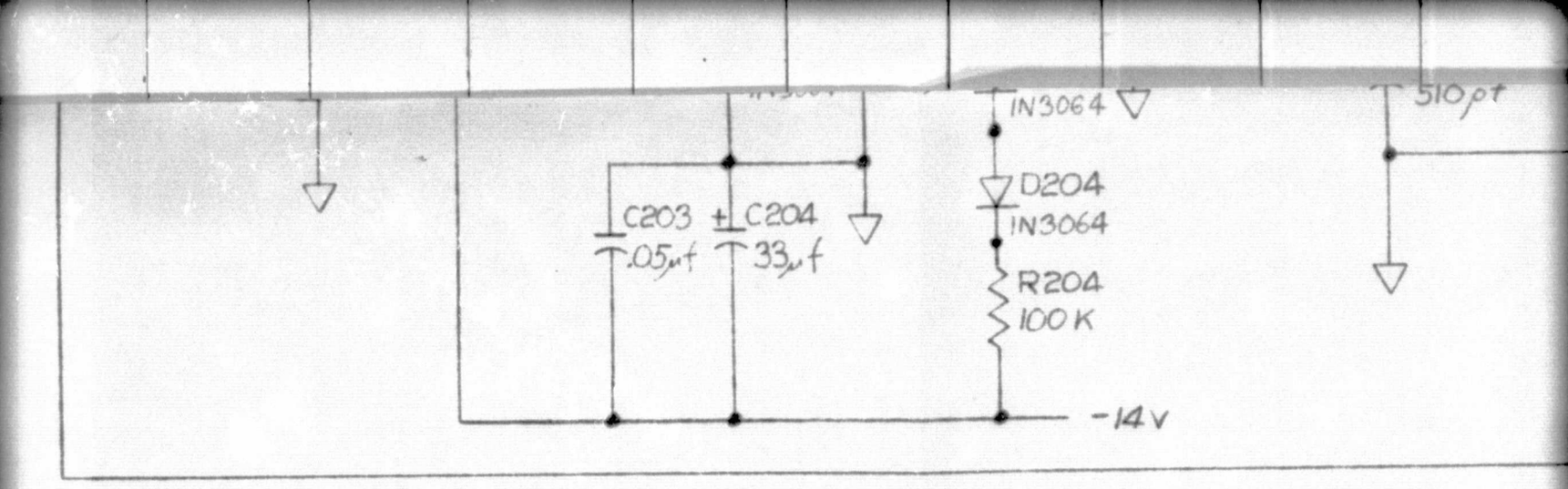
FOLDOUT FRAME 1

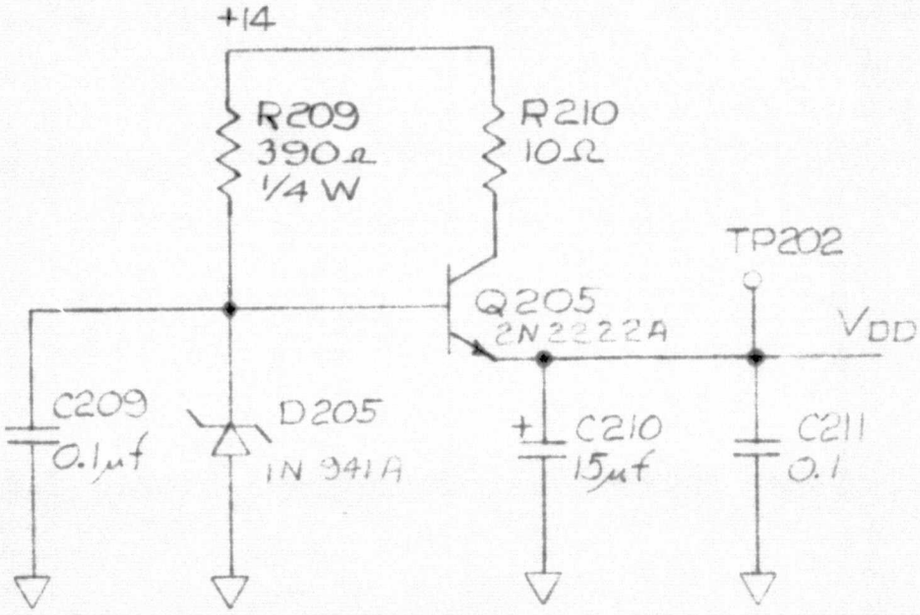


REVISIONS	
REV.	DESCRIPTION

FOLDOUT FRAME 2

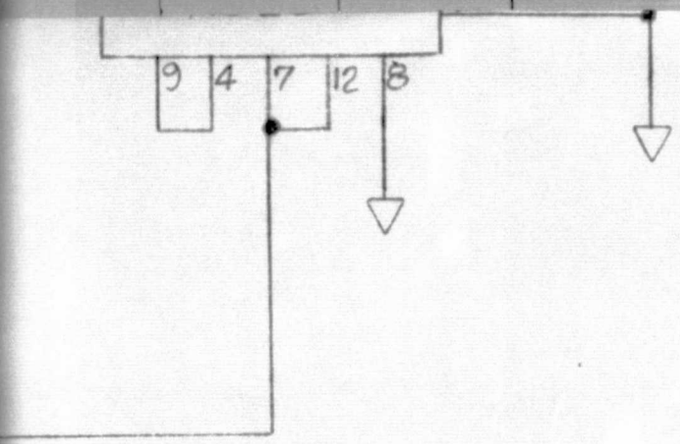






FOLDOUT FRAME 3

USED ON	NEX
APPLICATION	



GROUP 200

POWER SUPPLY

L 201

CORE : MAGNETICS, INC
55050-A2
77 TURNS NO. 24

FOLDOUT FRAME 4

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 5-6-75

CK BY
DATE

APPD BY
DATE

MFG. ENG.
DATE

PROJ. ENG.
DATE 18 Jul 75

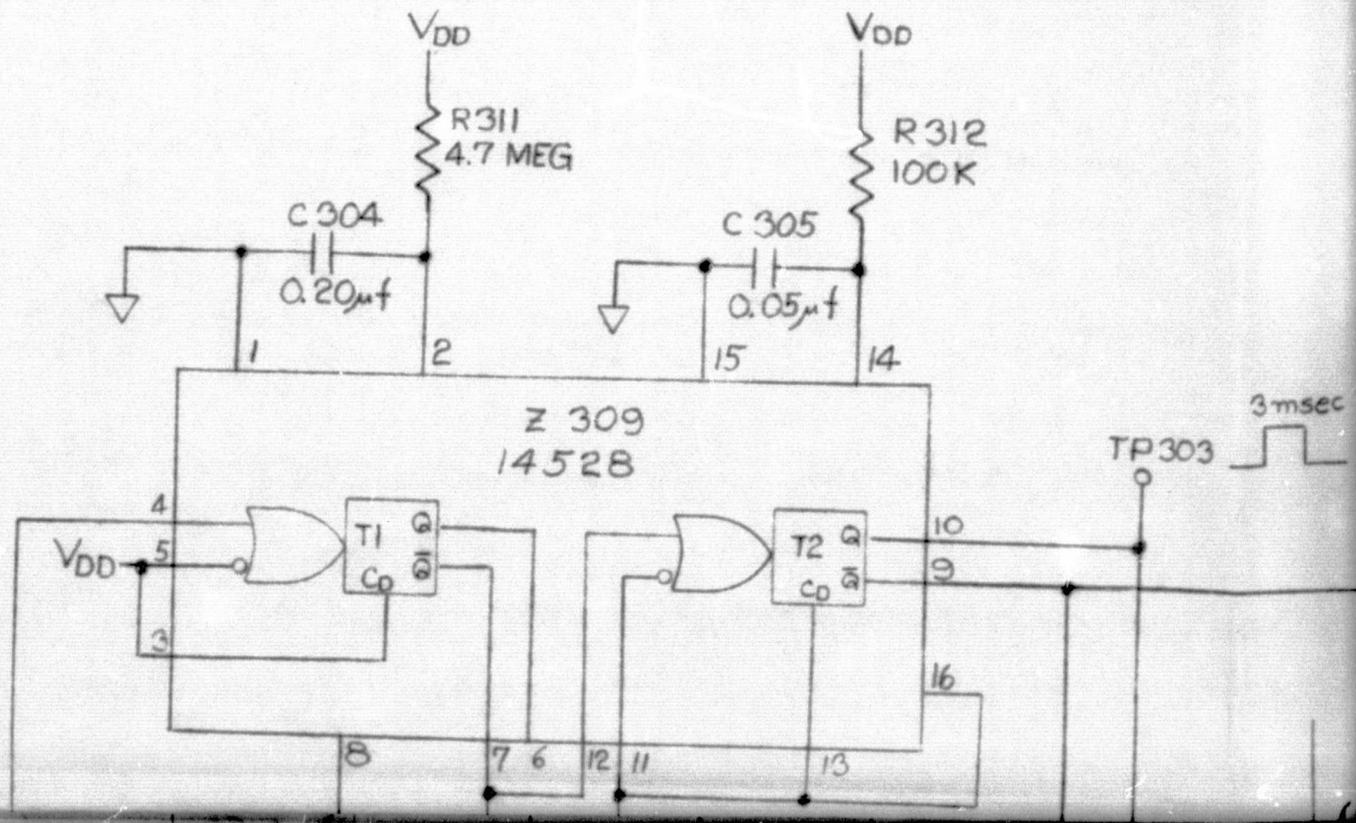
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
GROUP 200

CODE IDENT	SIZE	PART NO.	REV.
	C	501354	

UNIT WT. | SCALE ~ | SH 1 OF 1

FOLDOUT FRAME /



REV

FOLDOUT FRAME 3

msec

(1/10)

(1'S)

V_{DD}

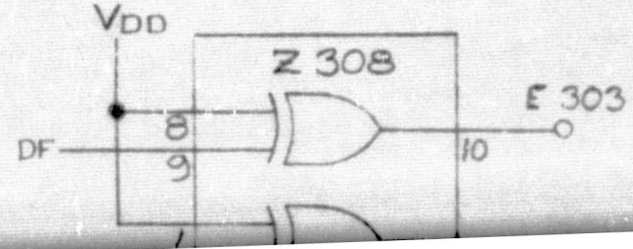
DF

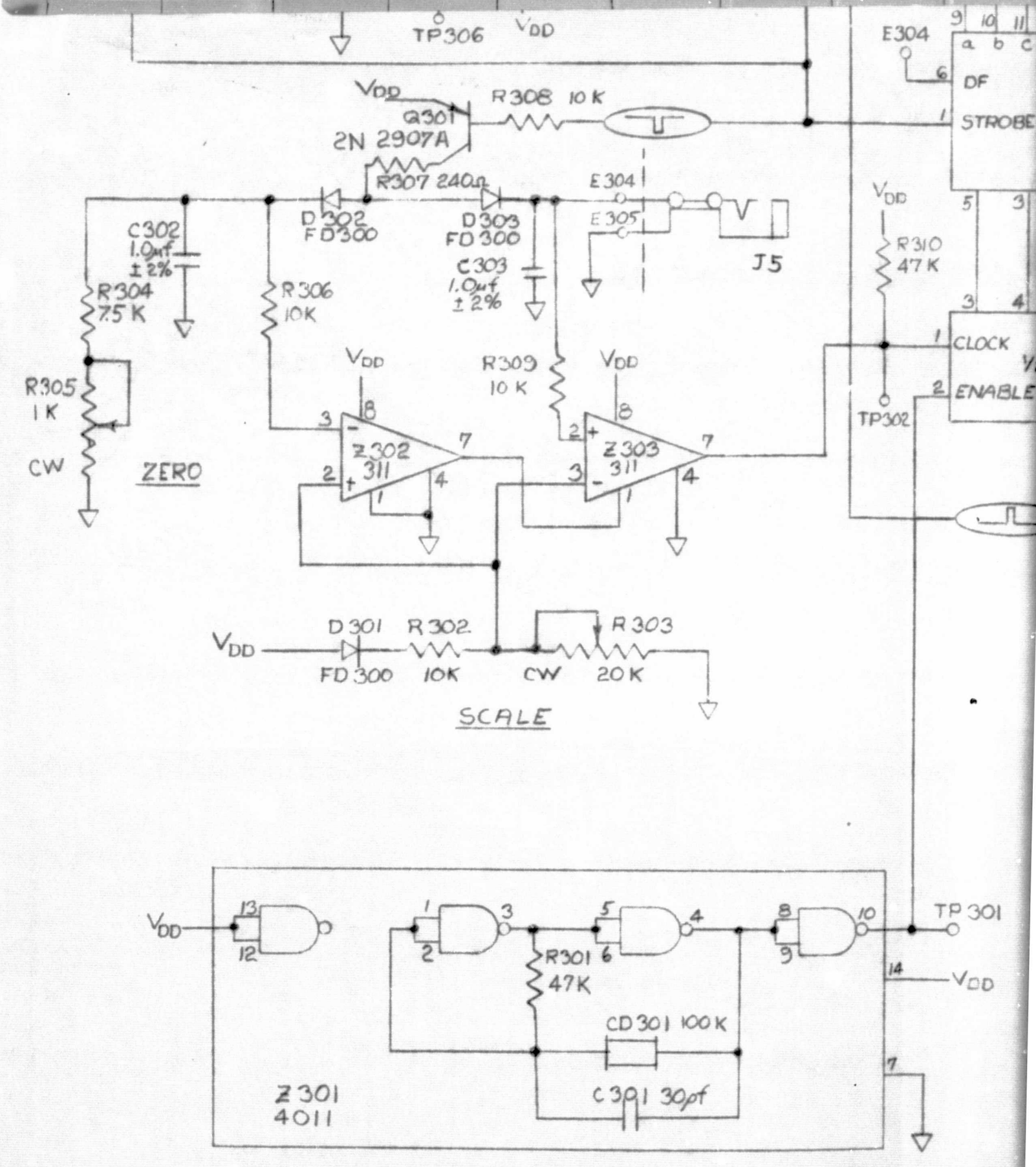
8

9

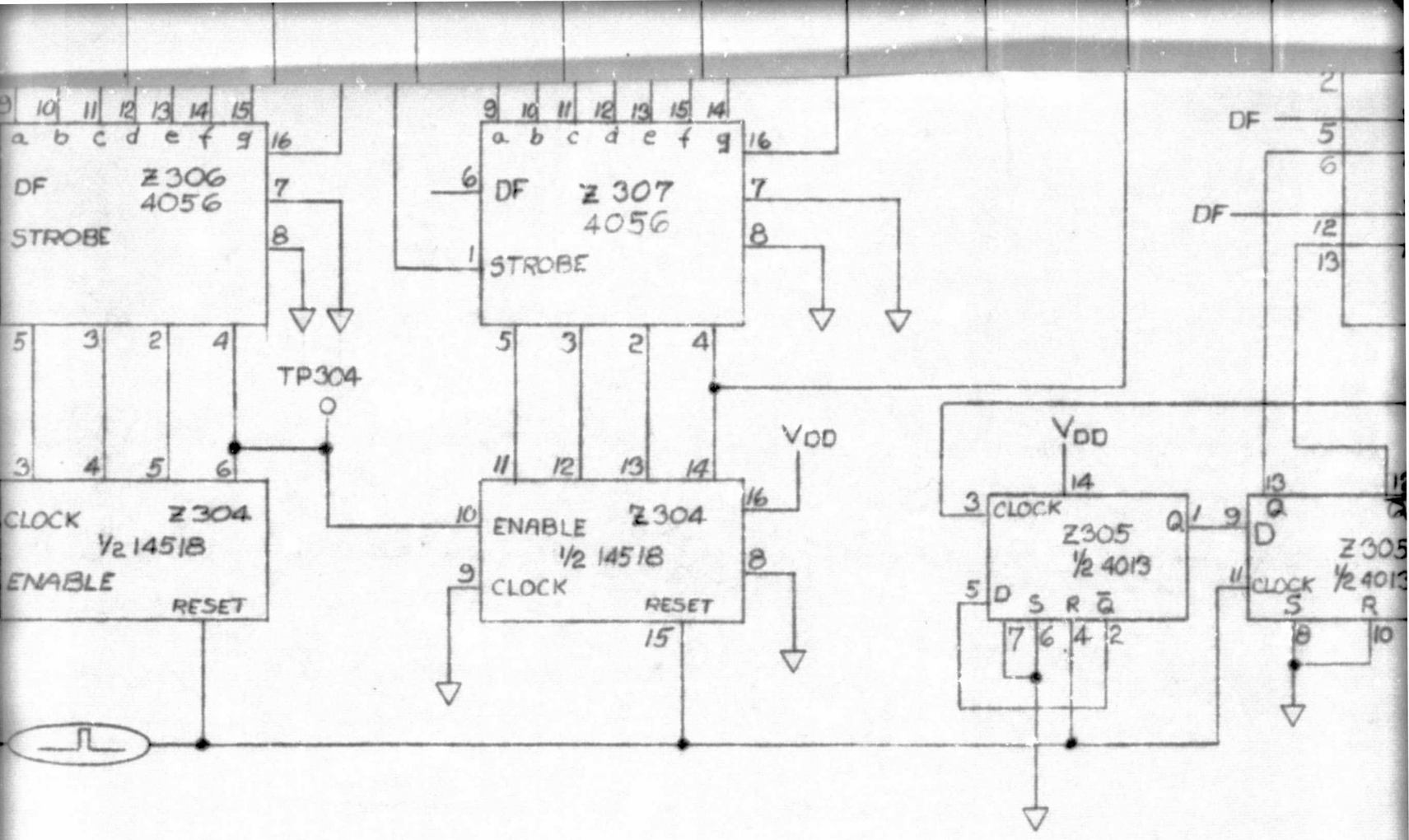
REVISIONS			
REV.	DESCRIPTION	DATE	APPD

FOLDOUT FRAME





FOLDOUT FRAME



GROUP 300
THERMOMETER

P301

VDD

FOLDOUT FRAME 5

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION
		BILL OF MATERIAL

USED ON	NEXT ASS'Y
APPLICATION	

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

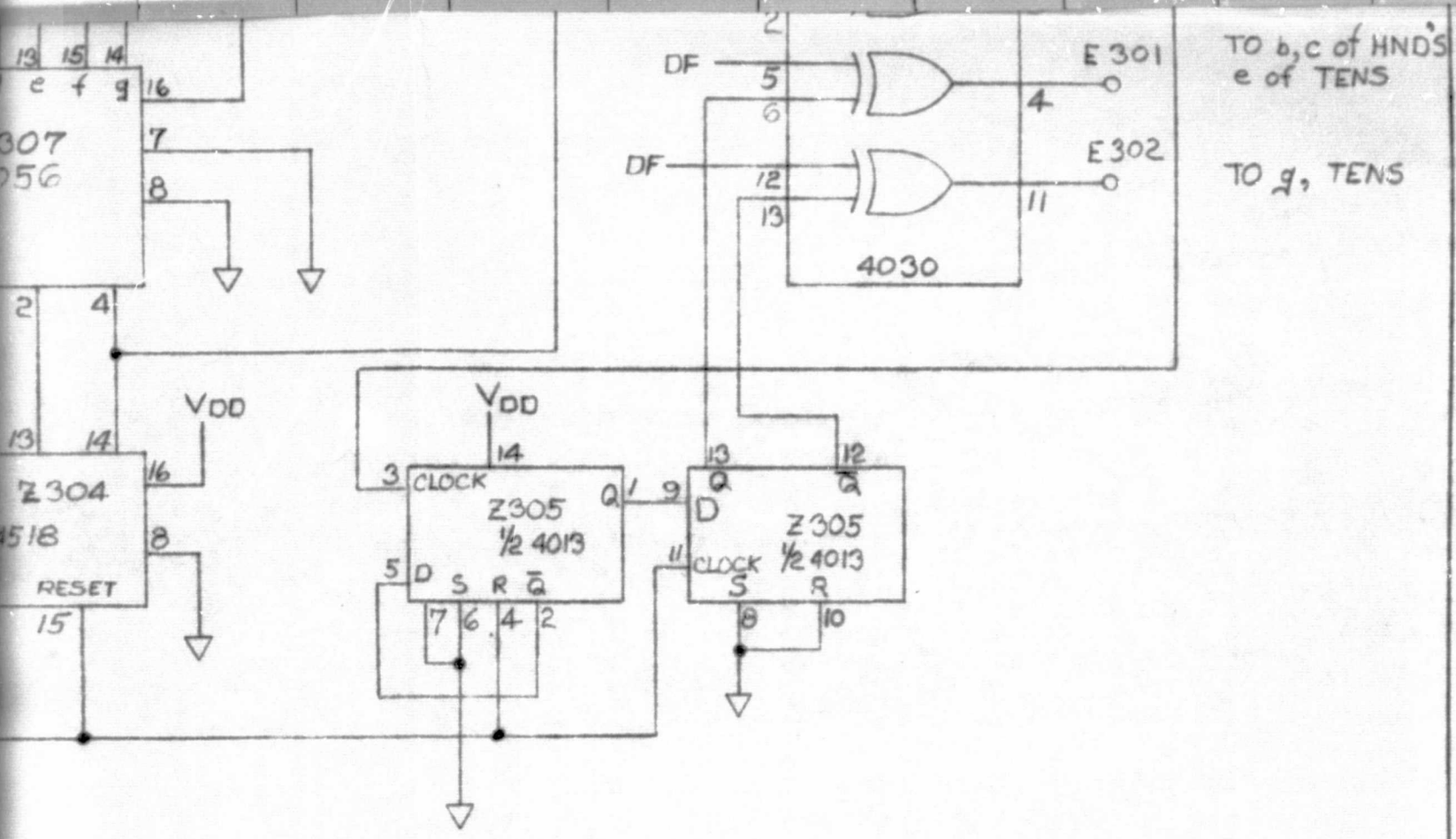
FINISH

DWN BY HAS DATE 5-8-75
CK BY DATE
APPD BY DATE
MFG. ENG. DATE
PROJ. ENG. DATE 18 Jun 75

PORTA

CODE IDENT

UNIT WT.



GROUP 300
THERMOMETER

FOLDOUT FRAME

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 5-8-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 18 Jun 75

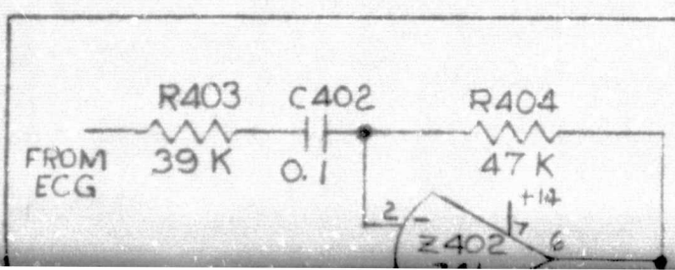
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
GROUP 300

CODE IDENT	SIZE	PART NO.	REV.
	C	501355	

UNIT WT. SCALE SH OF

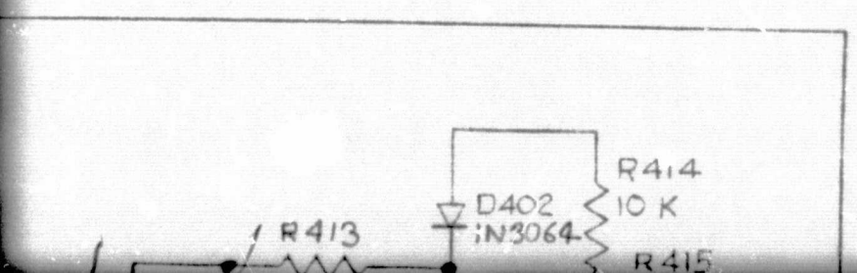
FOLDOUT FRAME



REV.

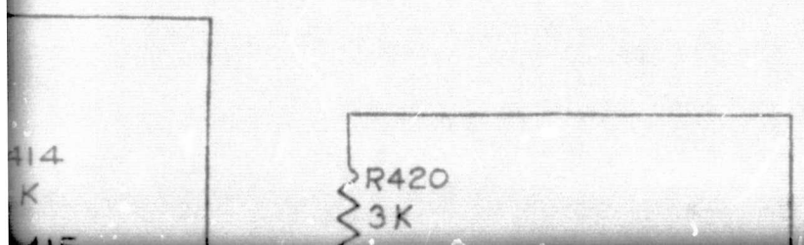
FOLDOUT FRAME 3

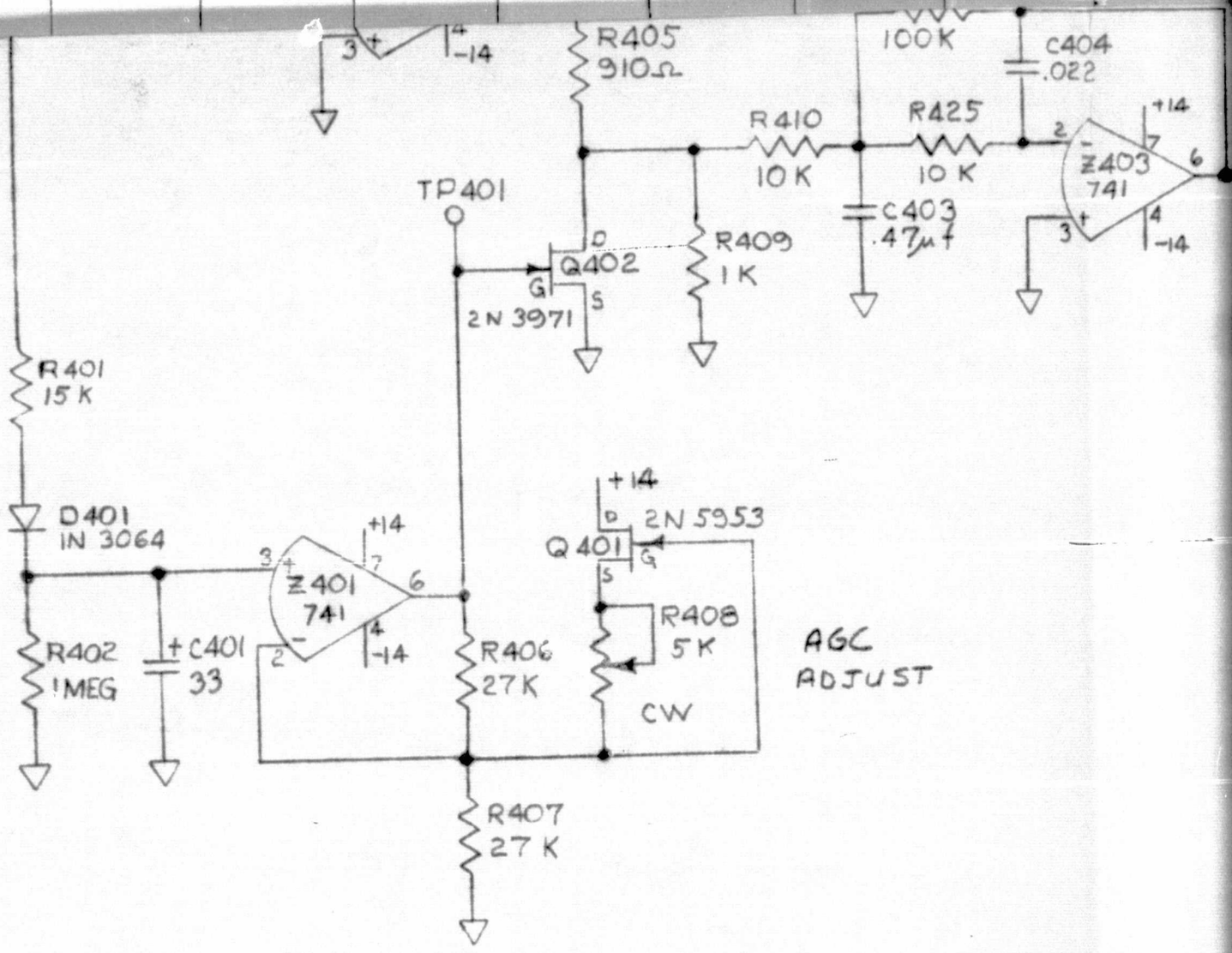
FOLDOUT FRAME 2



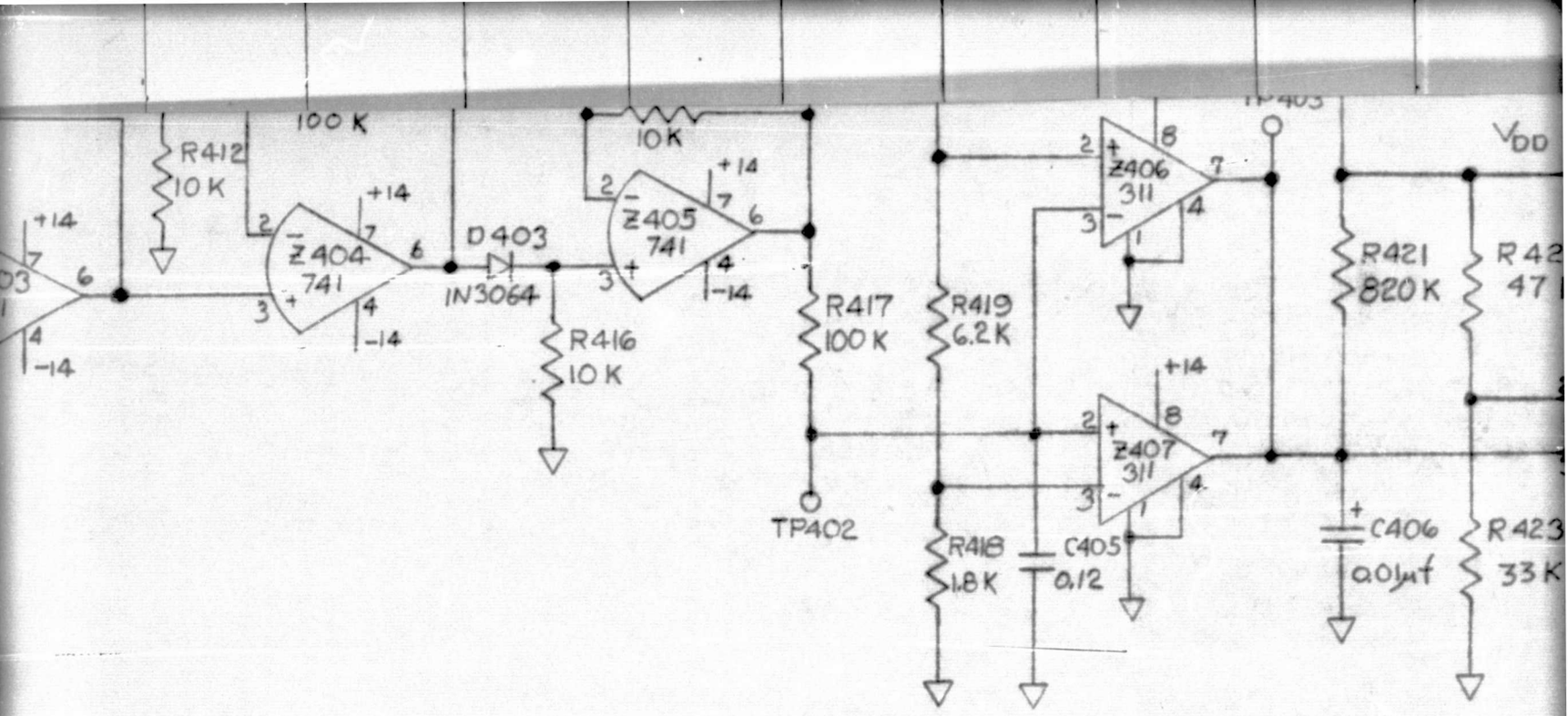
REVISIONS			
REV.	DESCRIPTION	DATE	APPD

FOLDOUT FRAME 3





FOLDOUT FRAME 4



GROUP 400
BEAT DETECTOR

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION
		BILL OF MATERIA

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 5-14-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 18 JUL 75

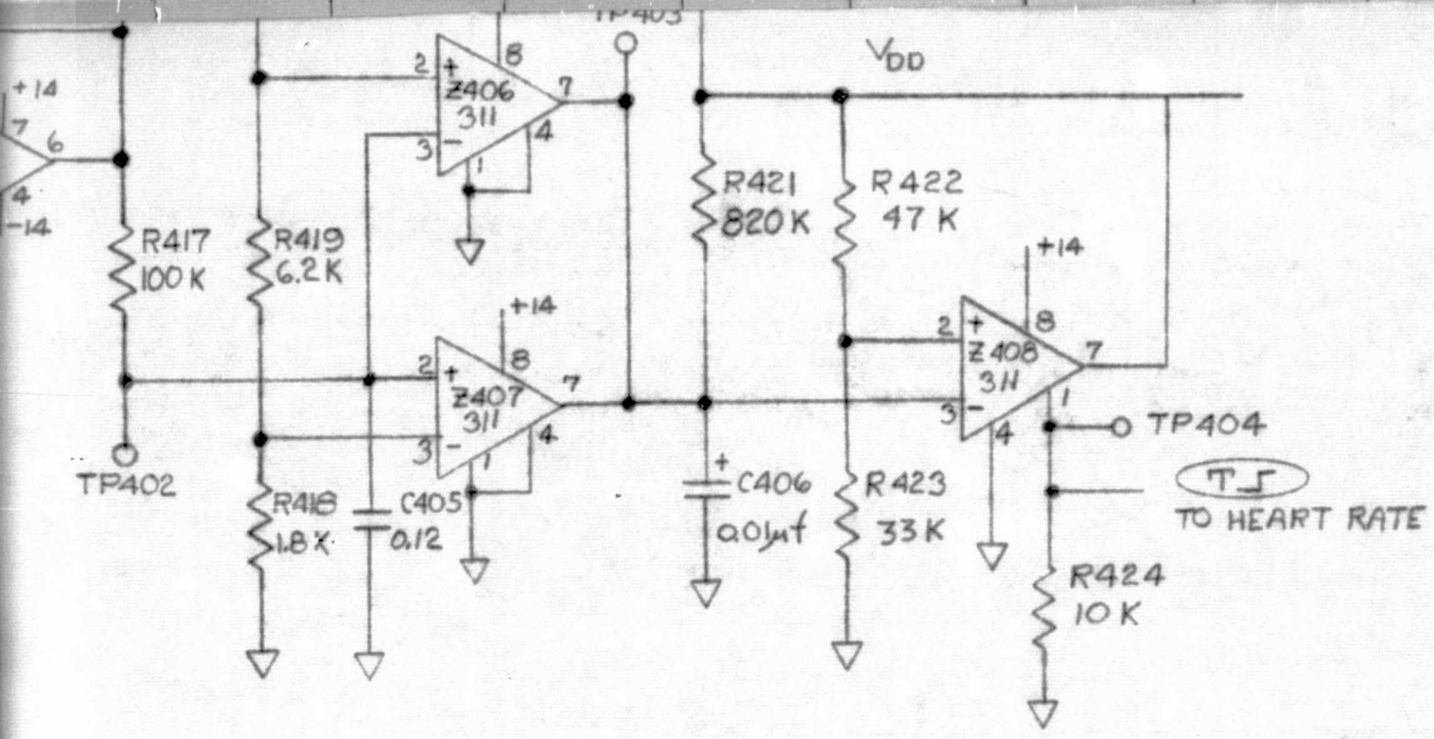
PORTA

CODE IDE

UNIT WT.

USED ON	NEXT ASS'Y
APPLICATION	

FOLDOUT FRAME



FOLDOUT FRAME 6

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

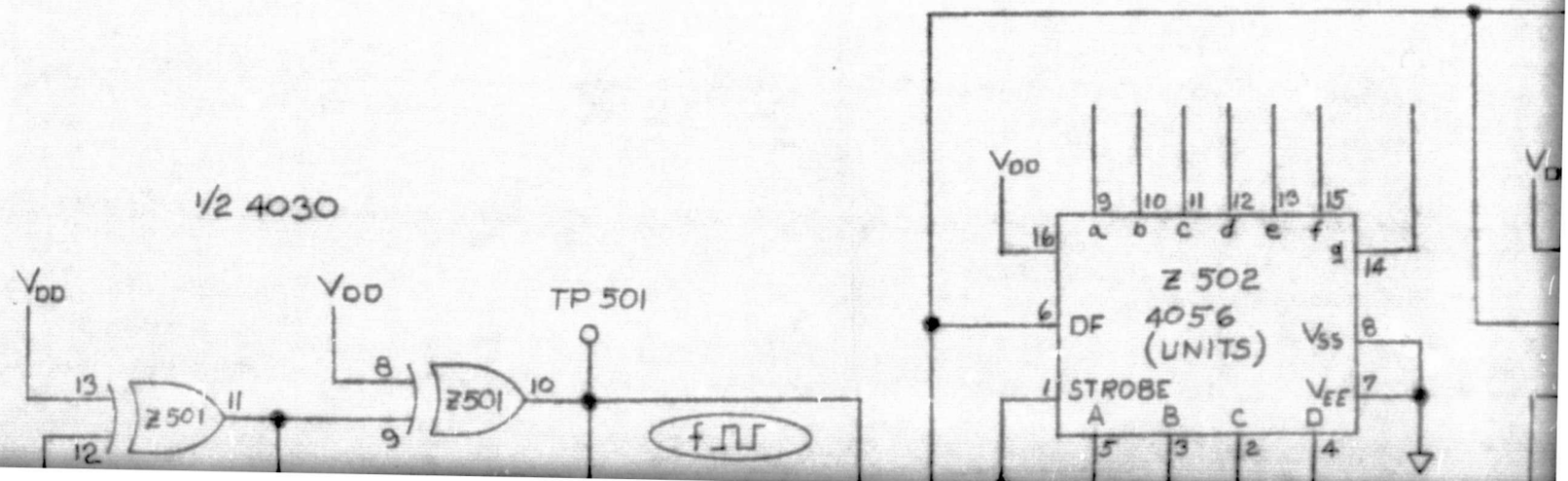
DWN BY HAS
DATE 5-14-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 18 JUL 75

TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

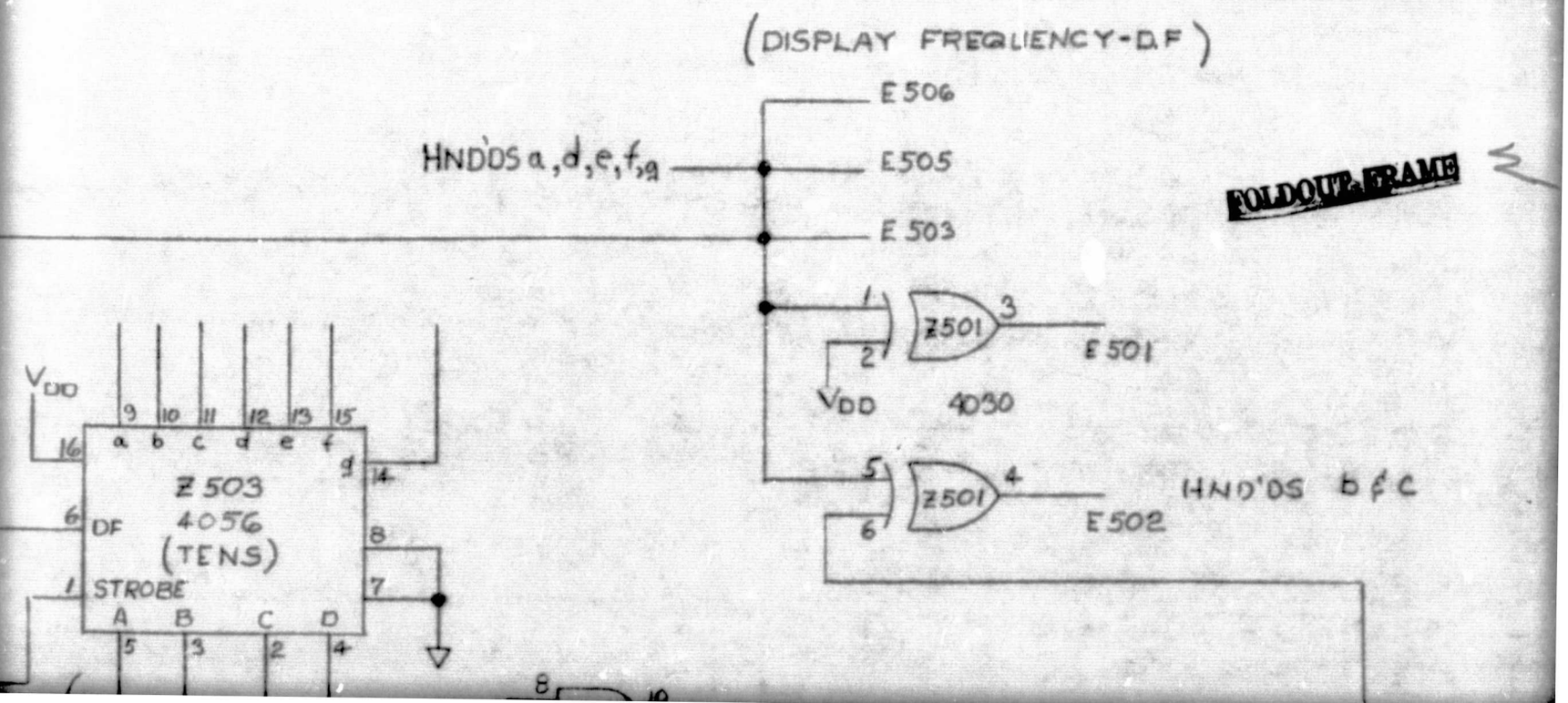
PORTABLE MEDICAL STATUS SYSTEM
GROUP 400

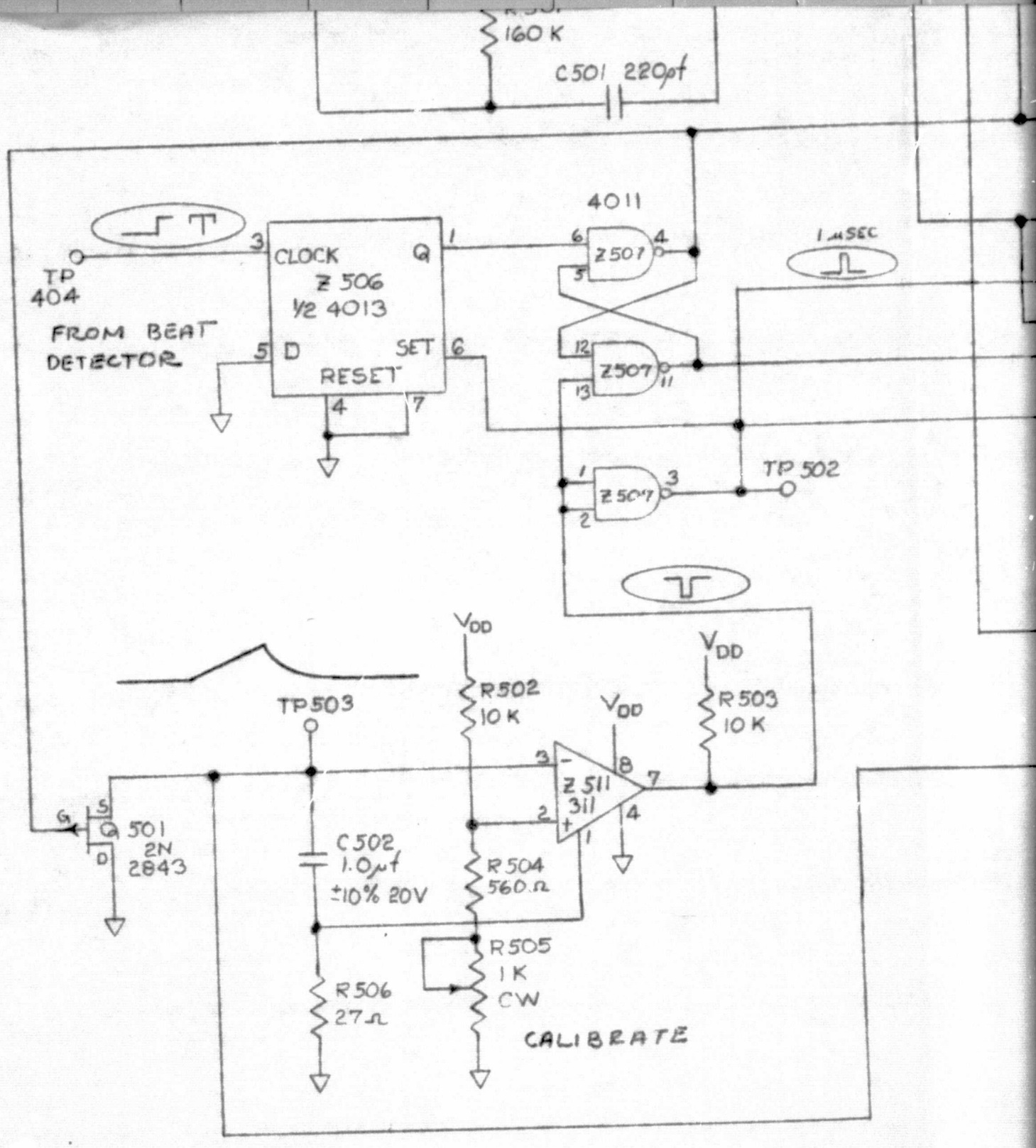
CODE IDENT	SIZE	PART NO.	REV.
	C	501356	
UNIT WT.	SCALE ~	SH 1 OF 1	

FOLDOUT FRAME 1

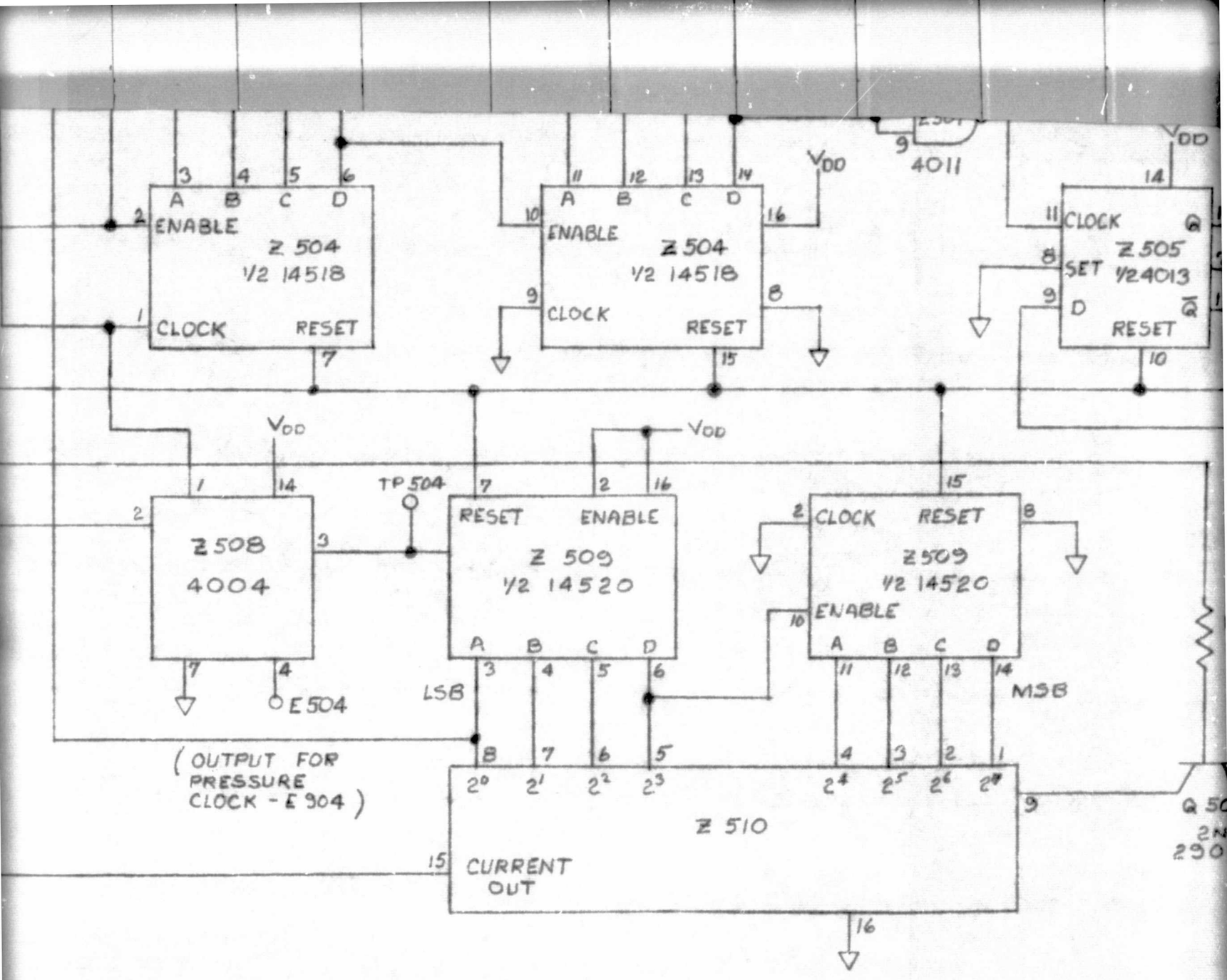


REVISIONS			
REV.	DESCRIPTION	DATE	AP





FOLDOUT FRAME 3



GROUP 500

HEART RATE

FOLDOUT FRAME 4

-4	-3	-2	-1	QTY REQD	PART NO.	DESCRIPTIO

BILL OF MATER

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

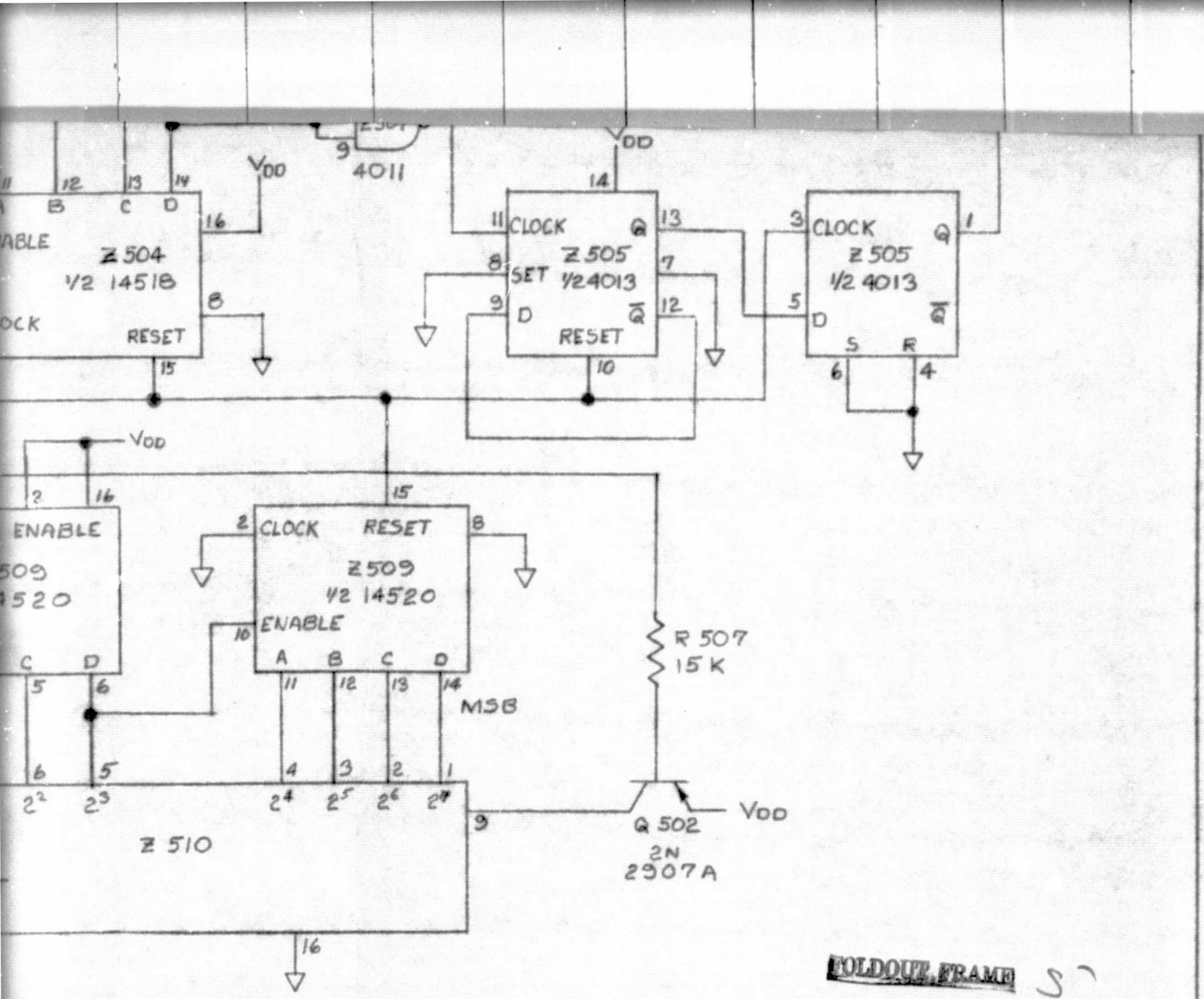
DWN BY HAS
DATE 5-15-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 19 MAY

PORT

CODE I

UNIT W

USED ON	NEXT ASS'Y
APPLICATION	



FOLDOUT FRAME 5

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 5-15-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 19 MAY 75

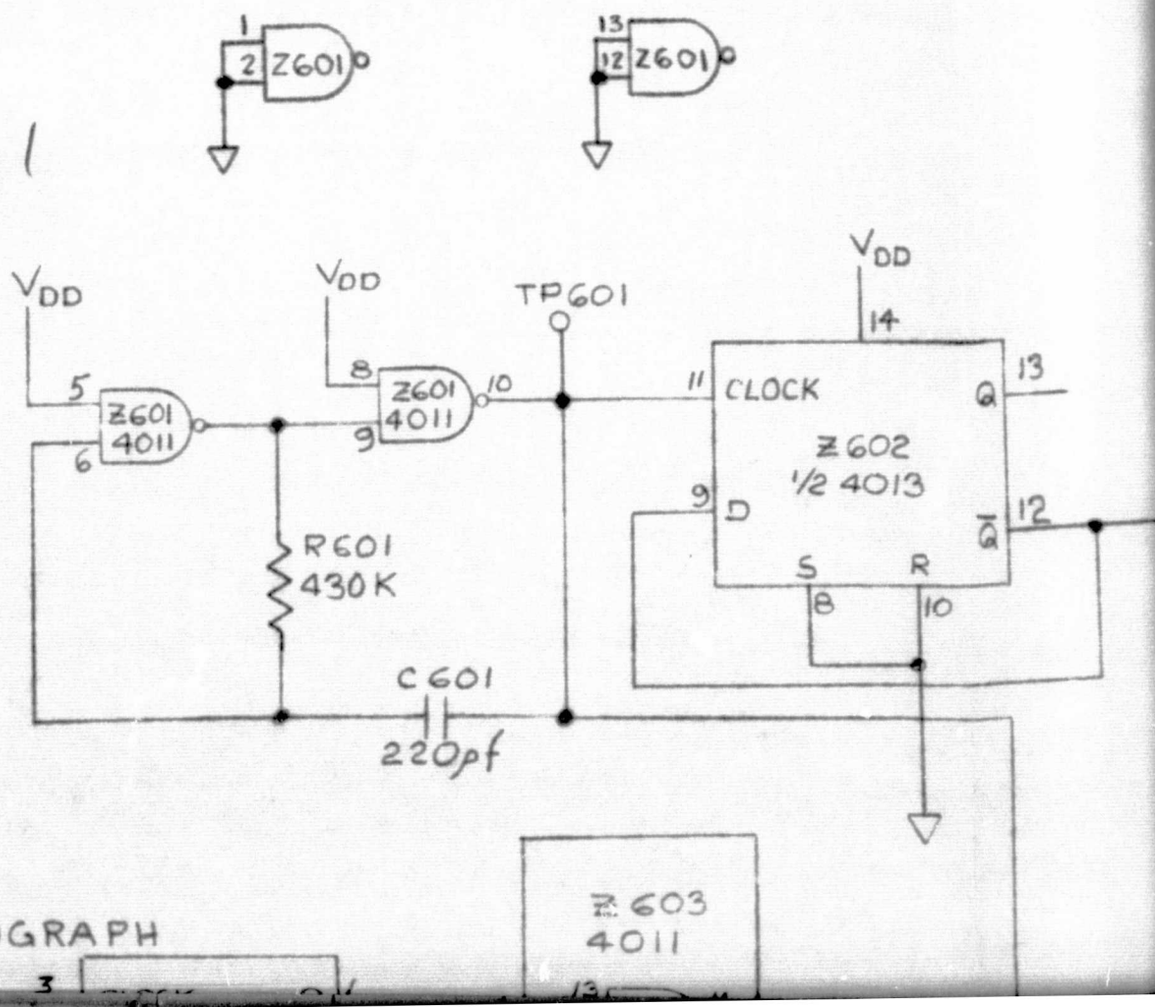
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
GROUP 500

CODE IDENT	SIZE	PART NO.	REV.
	C	501357	

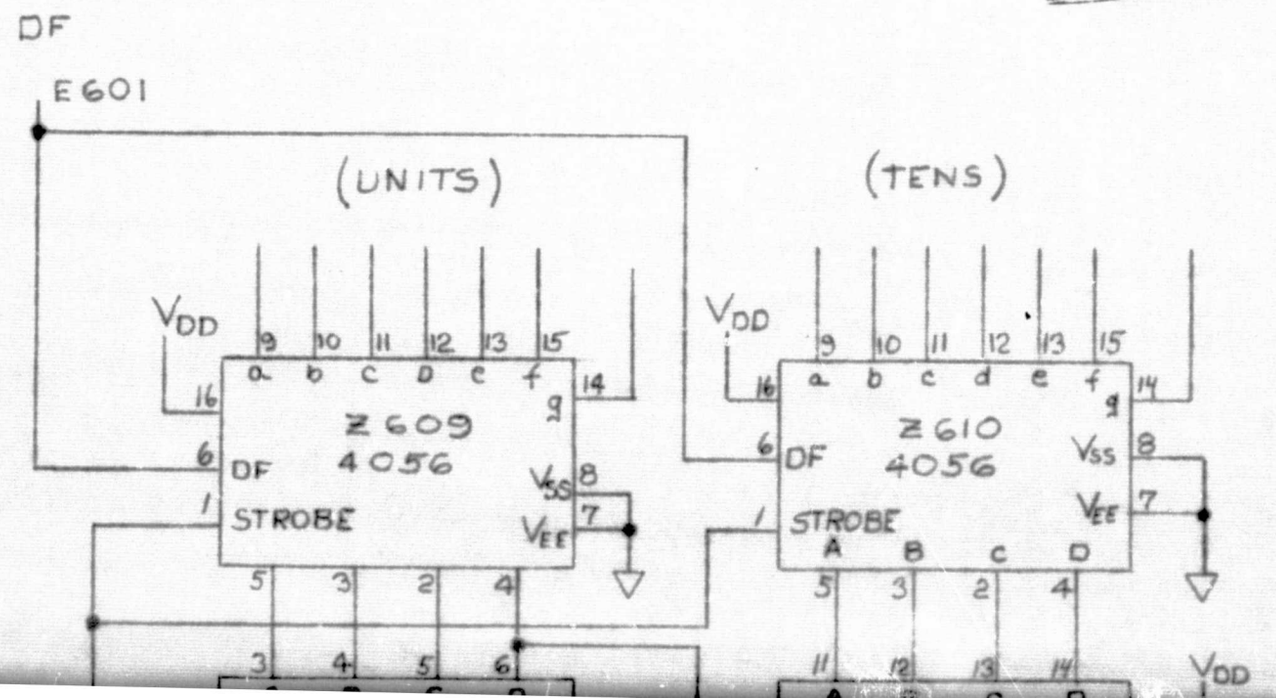
UNIT WT. SCALE ~ SH 1 OF 1

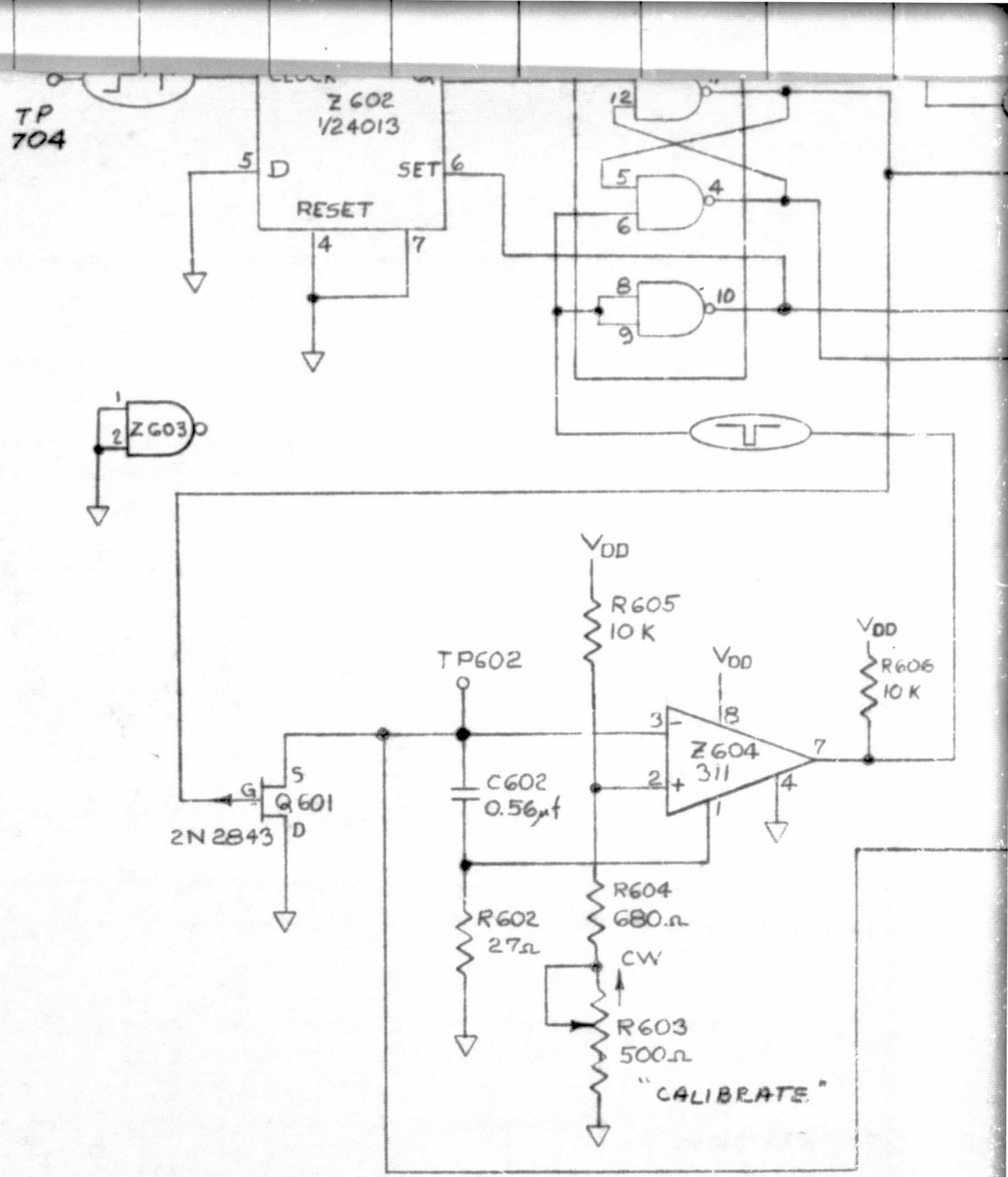
FOLDOUT FRAME 1



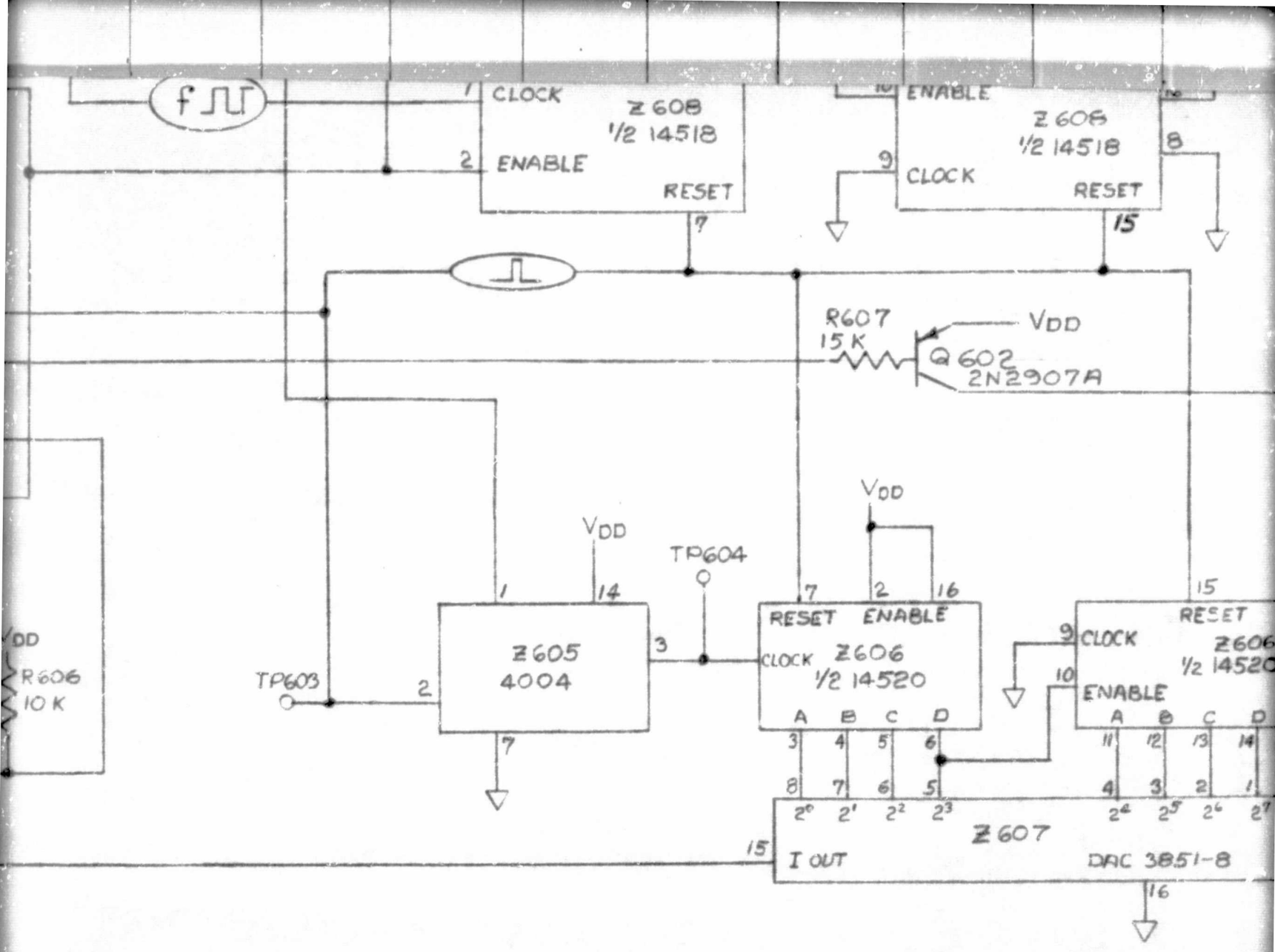
REV.	

FOLDOUT FRAME 2





FOLDOUT FRAME 3



GROUP 600
RESPIRATION RATE

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCR
		BILL OF MA

FOLDOUT FRAME 4

USED ON	NEXT ASS'Y
APPLICATION	

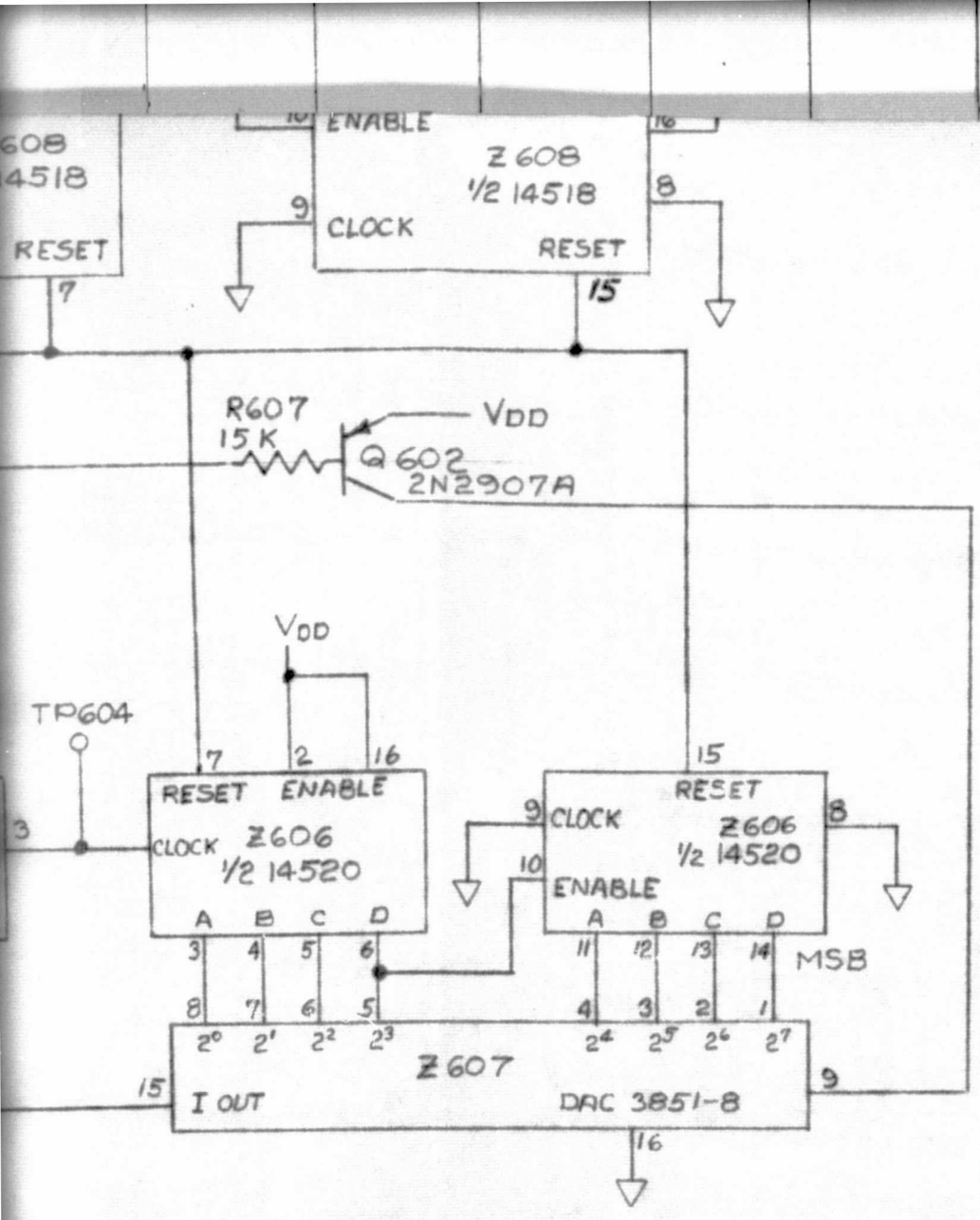
BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 5-9-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 15 MAY



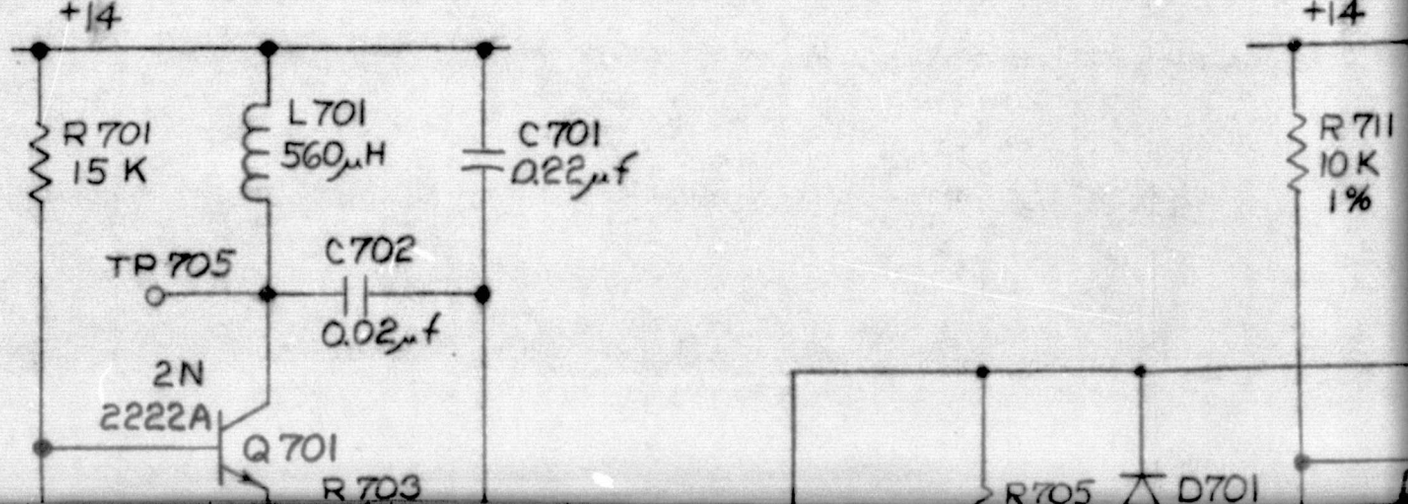
FOLDOUT FRAME 5

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

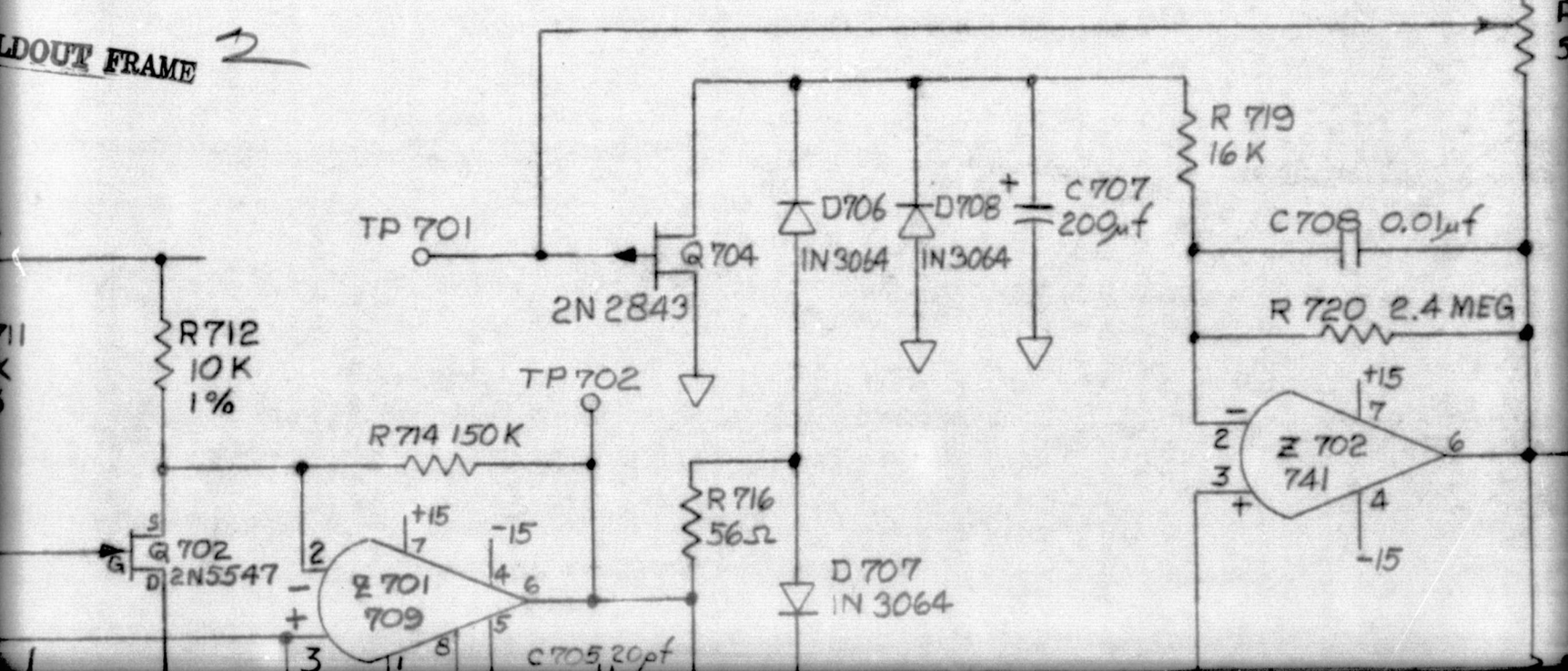
BREAK ALL SHARP EDGES AND CORNERS. DEBURR ALL HOLES.	DWN BY HAS DATE 5-9-75	TELECARE INC. 8575 MOSLEY DRIVE HOUSTON, TEXAS 77034
TOLERANCES UNLESS OTHERWISE SPECIFIED. .XXX = ±.010 .XX = ±.02 .X = ±.1 FRACTIONS ± ANGLES ± SURFACE FINISH RMS	CK BY DATE	PORTABLE MEDICAL STATUS SYSTEM GROUP 600
MATERIAL	APPD BY DATE	
	MFG. ENG. DATE	
FINISH	PROJ. ENG. DATE 15 MAY	CODE IDENT: SIZE C PART NO. 501358 REV.
		UNIT WT. SCALE ~ SH 1 OF 1

FOLDOUT FRAME

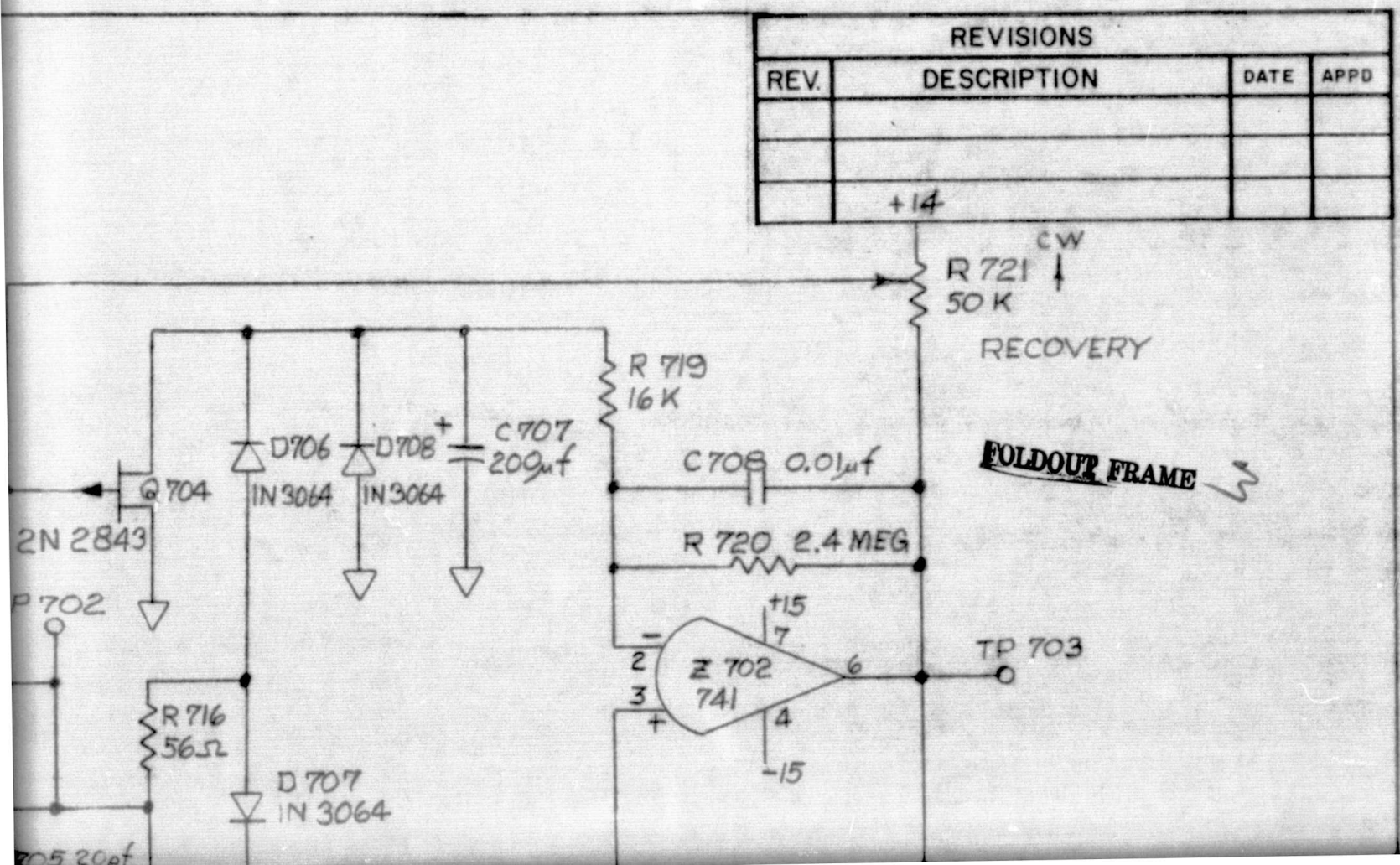


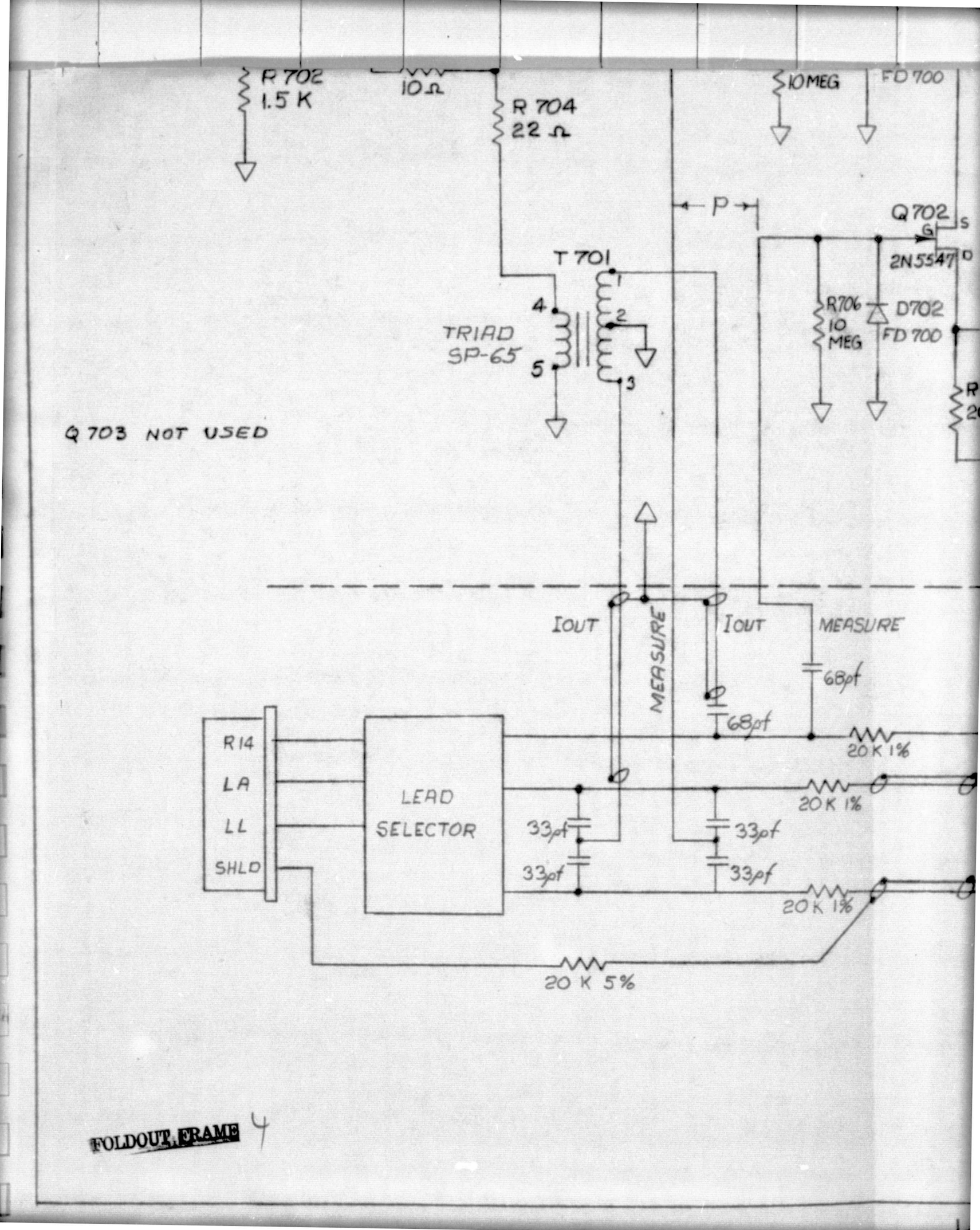
REV.	DE
	+14

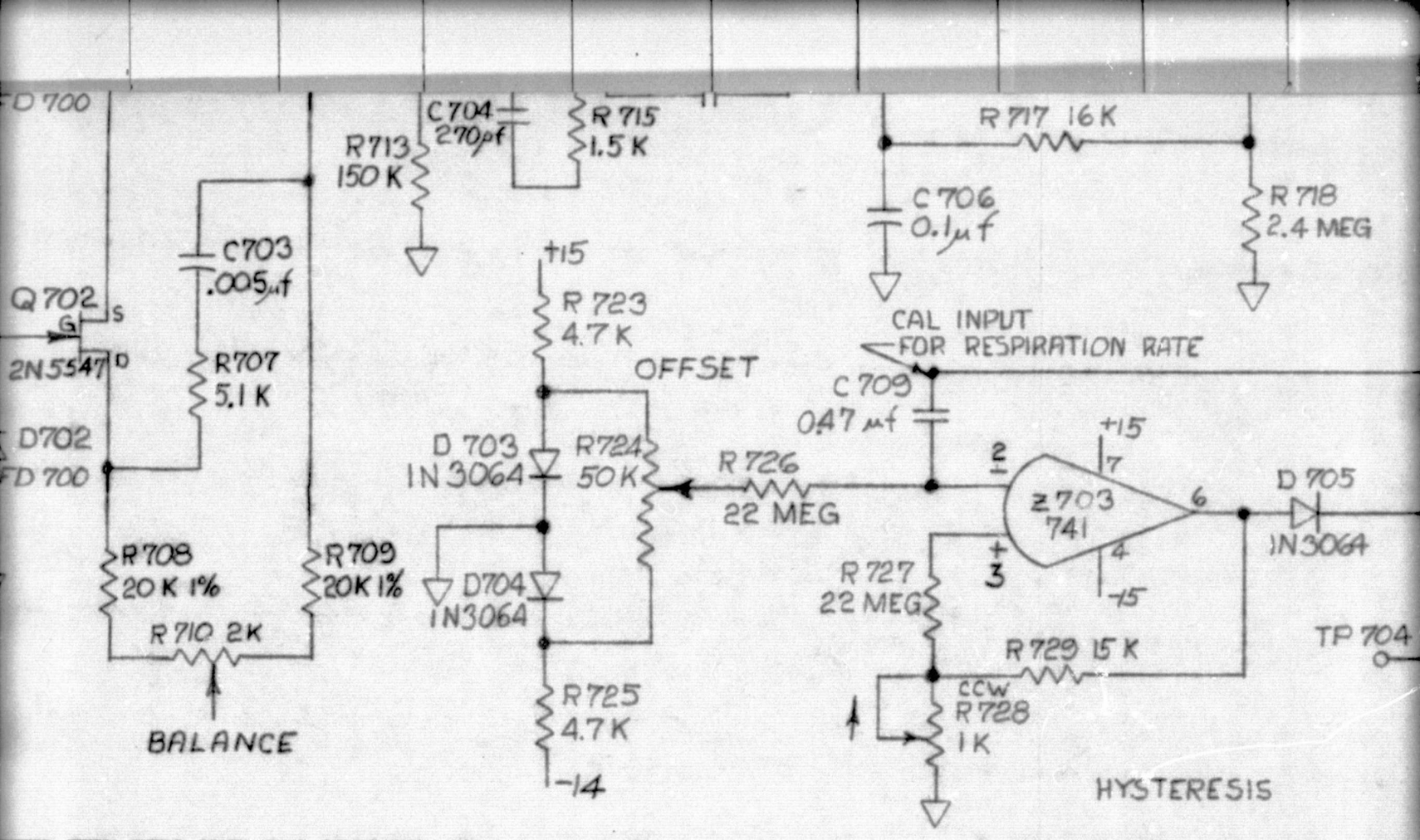
LDOUT FRAME 2

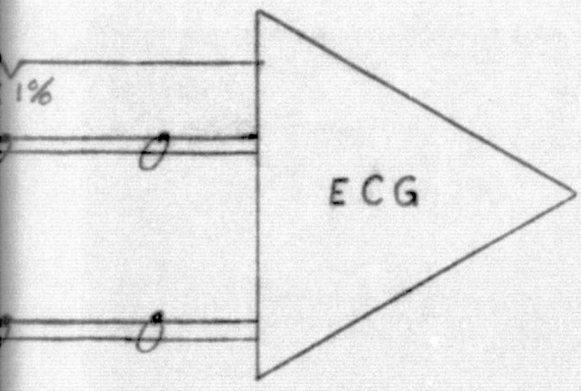


REVISIONS			
REV.	DESCRIPTION	DATE	APPD




R 702
1.5 K
10 Ω
R 704
22 Ω
10 MEG
FD 700
P
Q 702
G
S
D
2N5547
T 701
TRIAD
SP-65
1
2
3
4
5
R706
10
MEG
D702
FD 700
Q 703 NOT USED
IOUT
MEASURE
IOUT
MEASURE
68pf
68pf
R14
LA
LL
SHLD
LEAD
SELECTOR
20K 1%
20K 1%
33pf
33pf
33pf
33pf
20K 1%
20 K 5%
FOLDOUT FRAME 4





GROUP 700

IMPEDANCE PNEUMOGRAPH

FOLDOUT FRAME 5

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTIO
		BILL OF MATER

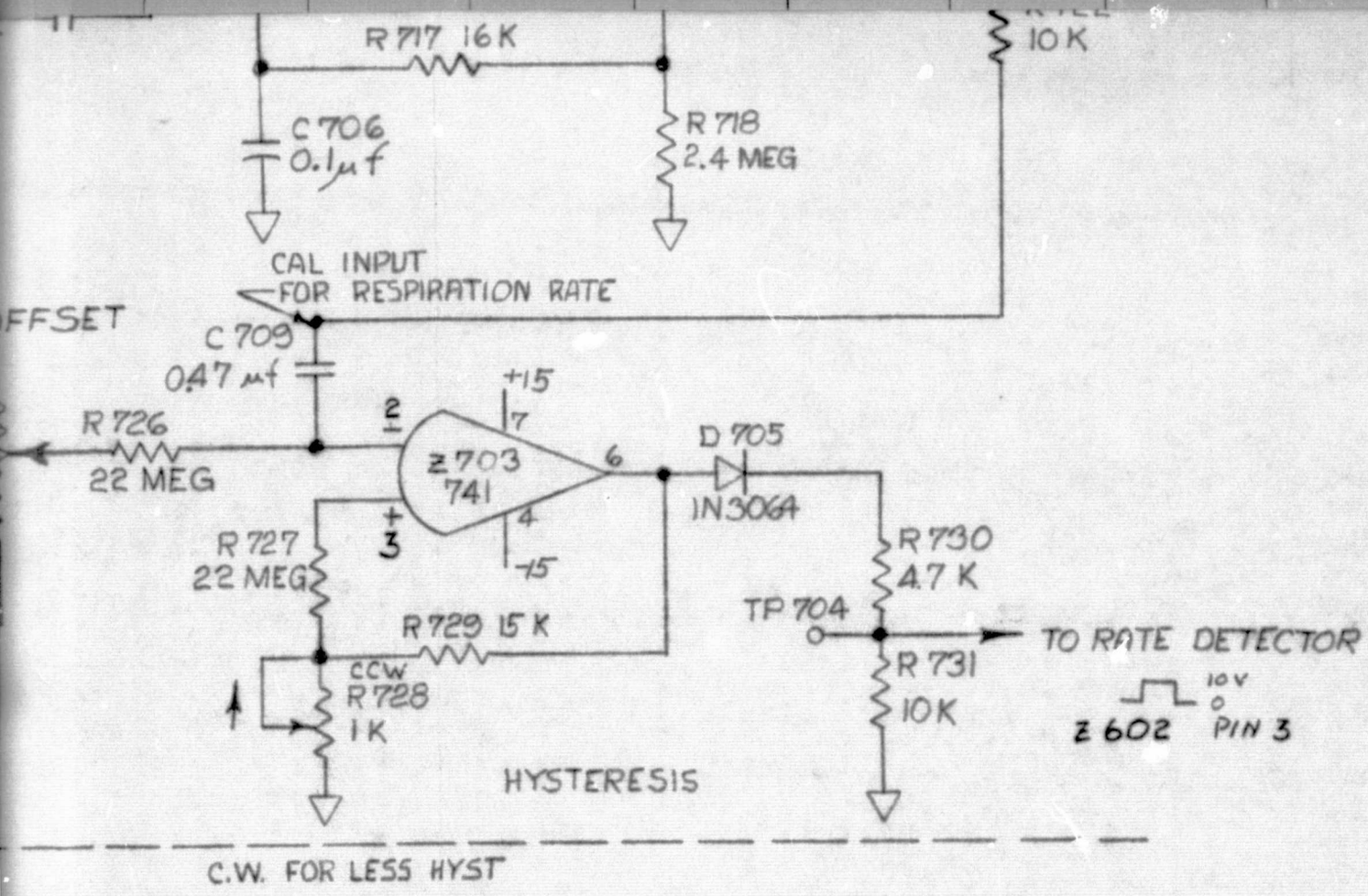
BREAK ALL SHARP EDGES AND CORNERS. DEBURR ALL HOLES.	DWN BY HAS DATE 5-8-75
TOLERANCES UNLESS OTHERWISE SPECIFIED. .XXX = ±.010 .XX = ±.02 .X = ±.1 FRACTIONS ± ANGLES ± SURFACE FINISH RMS	CK BY DATE
	APPD BY DATE
MATERIAL	MFG. ENG. DATE
FINISH	PROJ. ENG. DATE 8 MAY

USED ON	NEXT ASS'Y
APPLICATION	

PORT

CODE ID

UNIT WT



GROUP 700
IMPEDANCE PNEUMOGRAPH

FOLDOUT FRAME 6

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 5-8-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 8 MAY

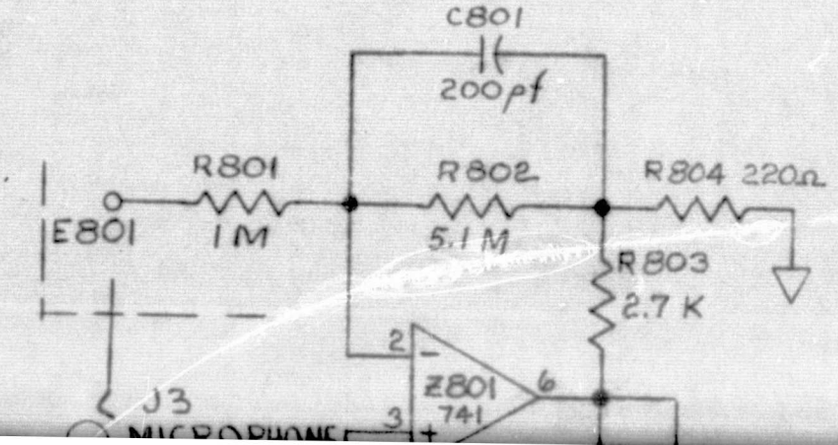
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
GROUP 700

CODE IDENT	SIZE	PART NO.	REV.
	C	501359	

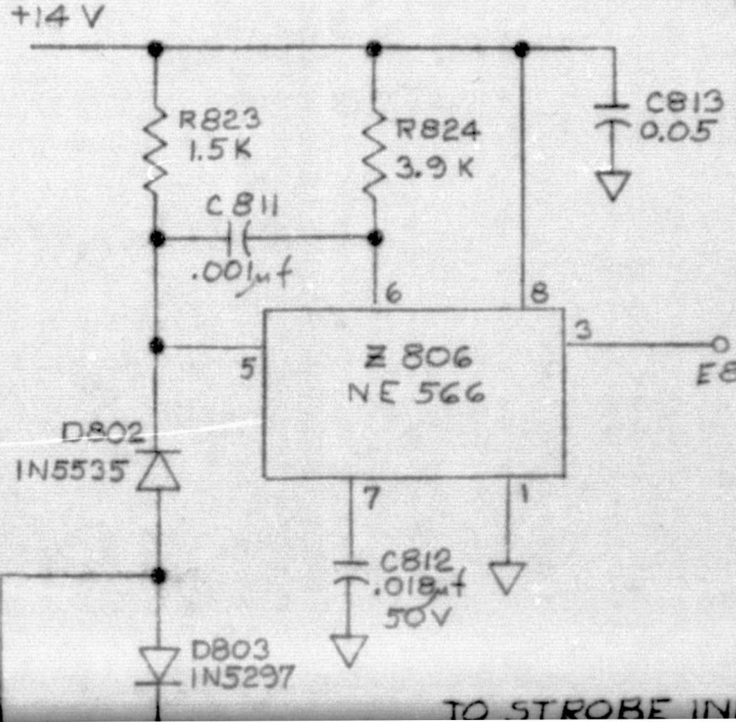
UNIT WT. SCALE ~ SH 1 OF 1

FOLDOUT FRAME 1

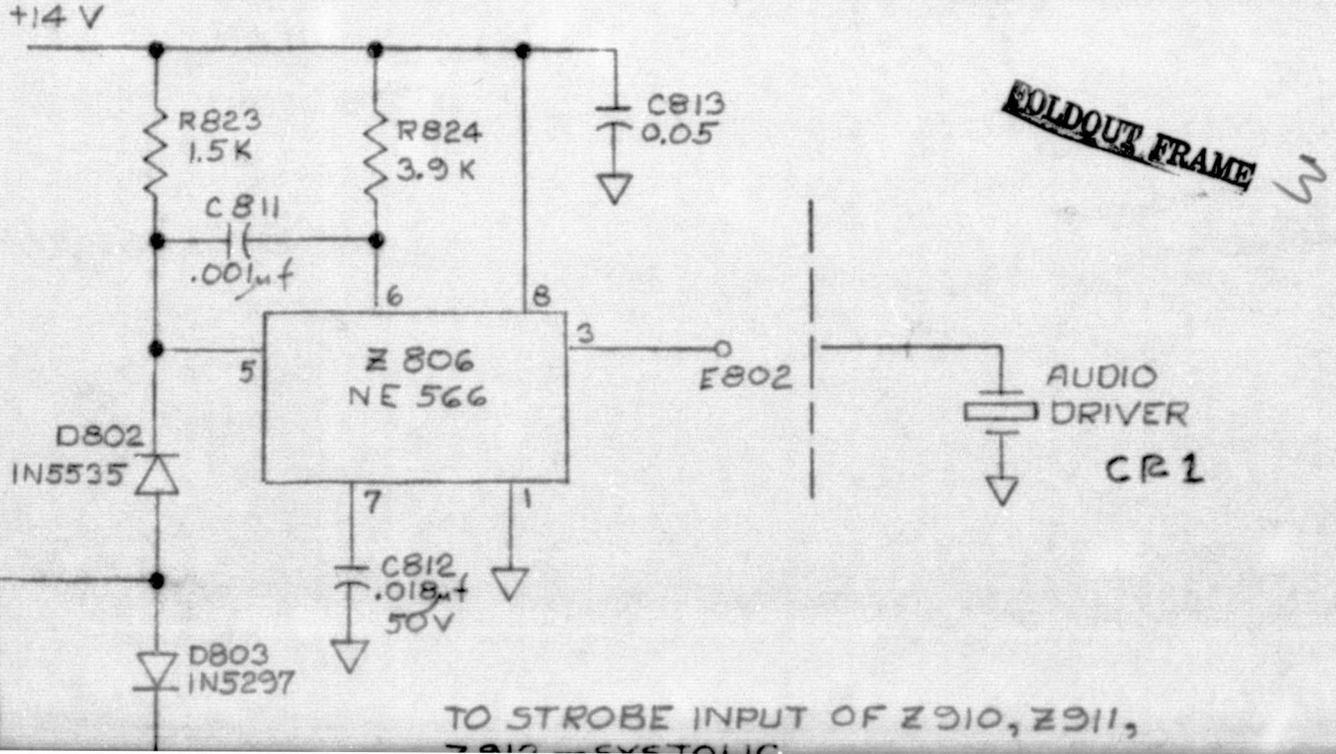


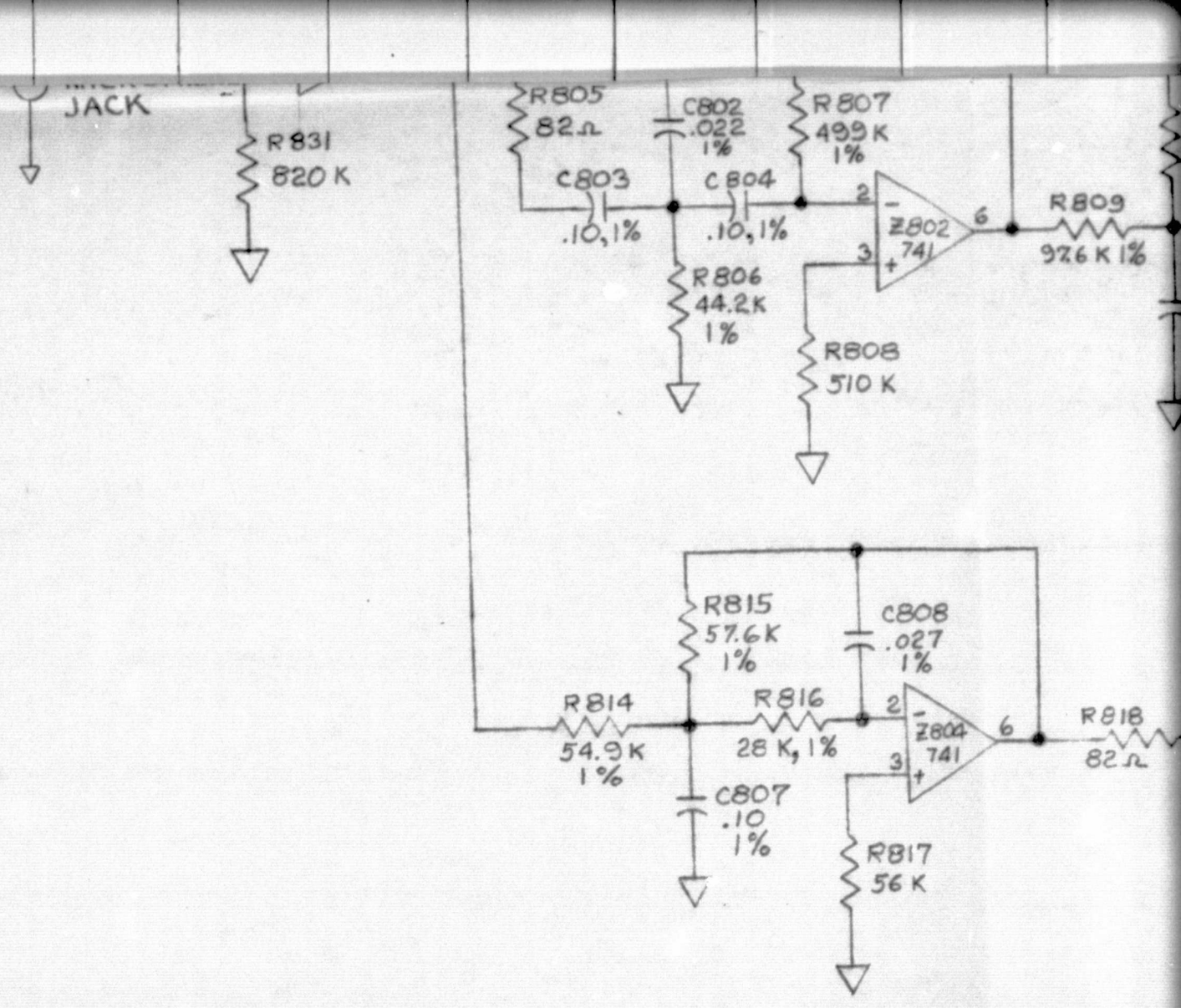
REV.	

FOLDOUT FRAME 2



REVISIONS			
REV.	DESCRIPTION	DATE	APPD

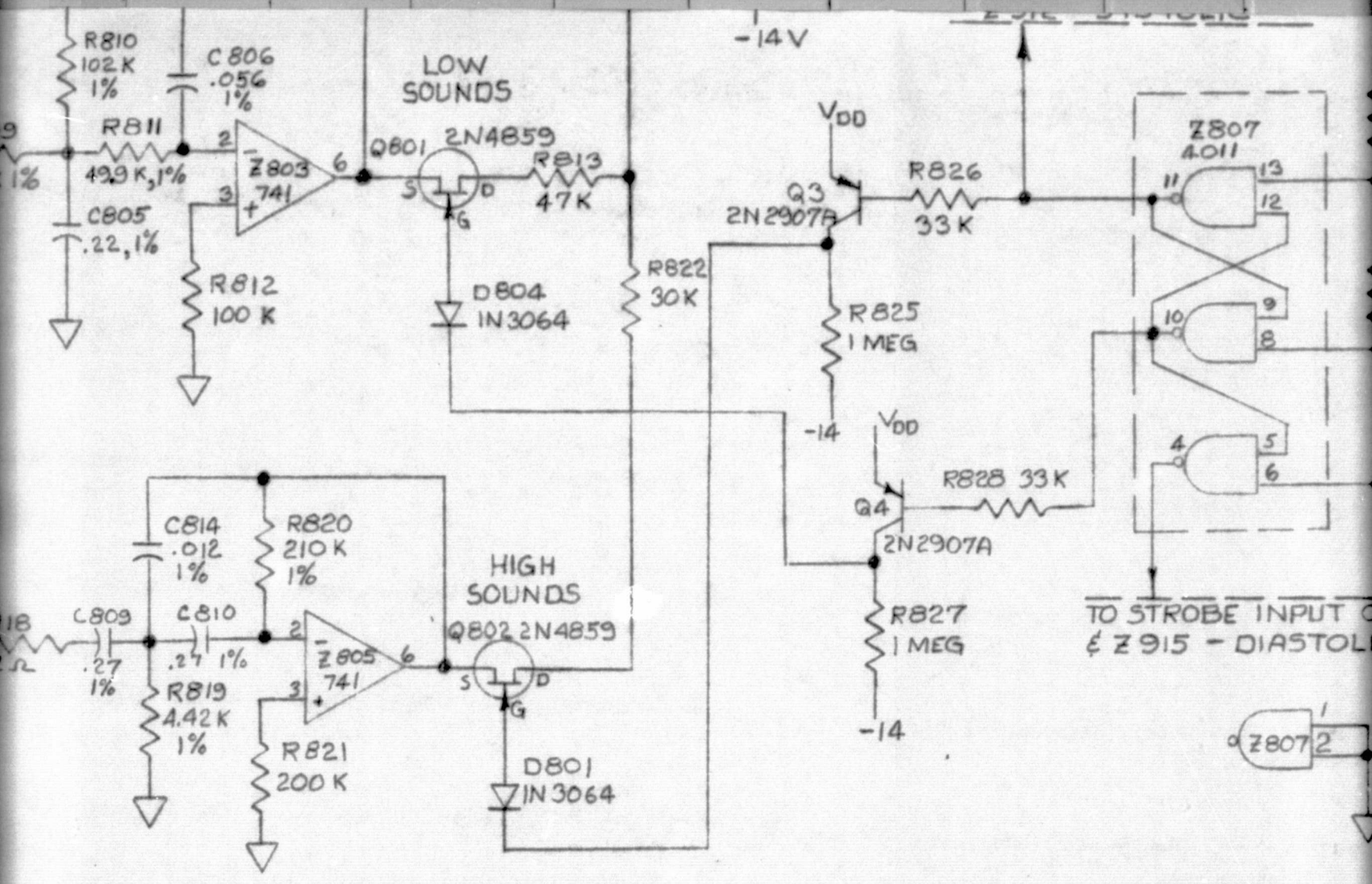




GROUP 800

SOUNDS PROCESSOR

FOLDOUT FRAME



-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION
	BILL OF MATERIAL	

FOLDOUT FRAME 3

USED ON	NEXT ASS'Y
APPLICATION	

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

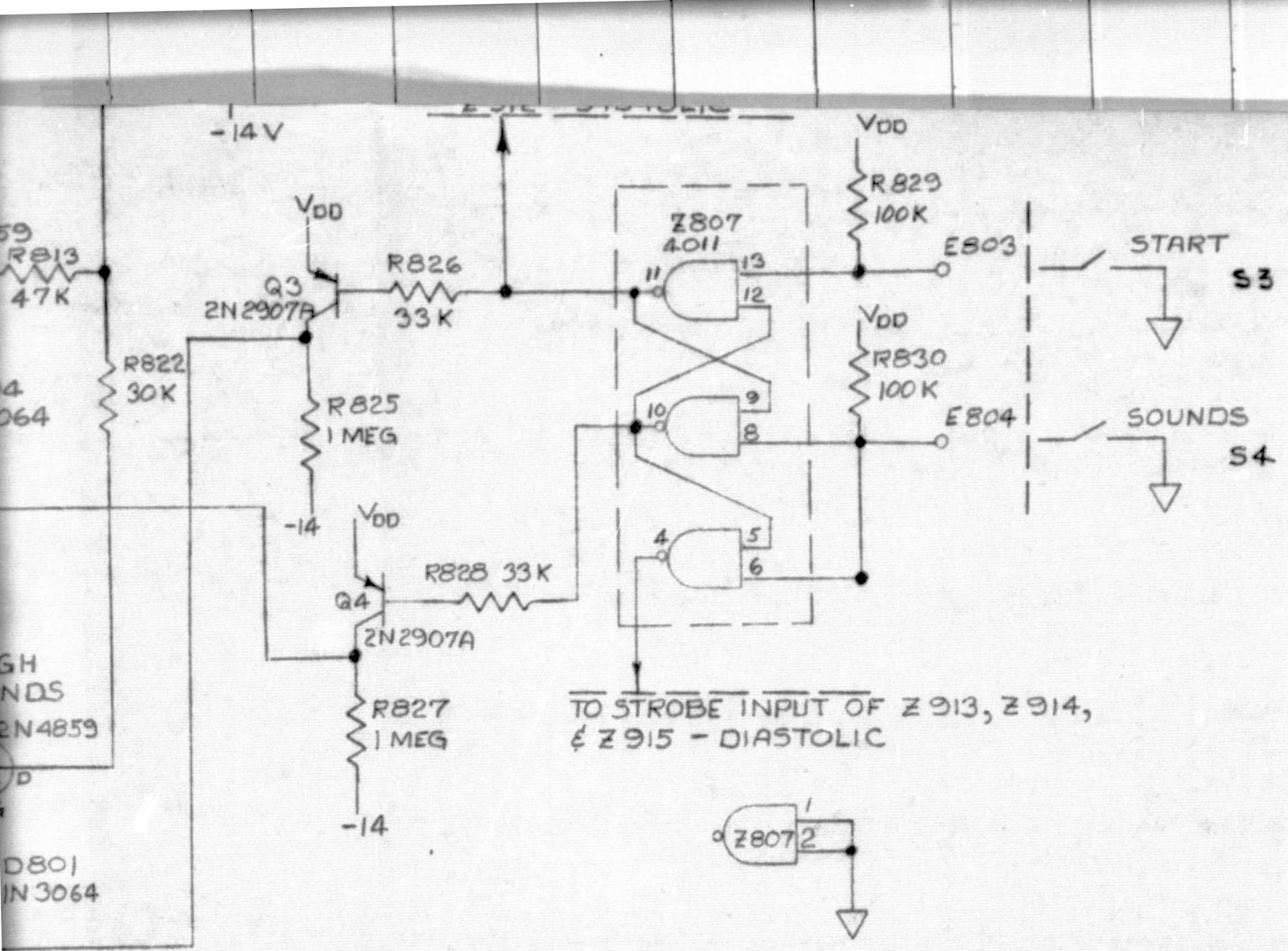
DWN BY HAS
DATE 5-12-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 18 Jul 75

TELECAR INC.

PORTABLE
GR

CODE IDENT | SIZE C

UNIT WT.



FOLDOUT FRAME

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ± .010 .XX = ± .02 .X = ± .1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HAS
DATE 5-12-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 18 Jun 75

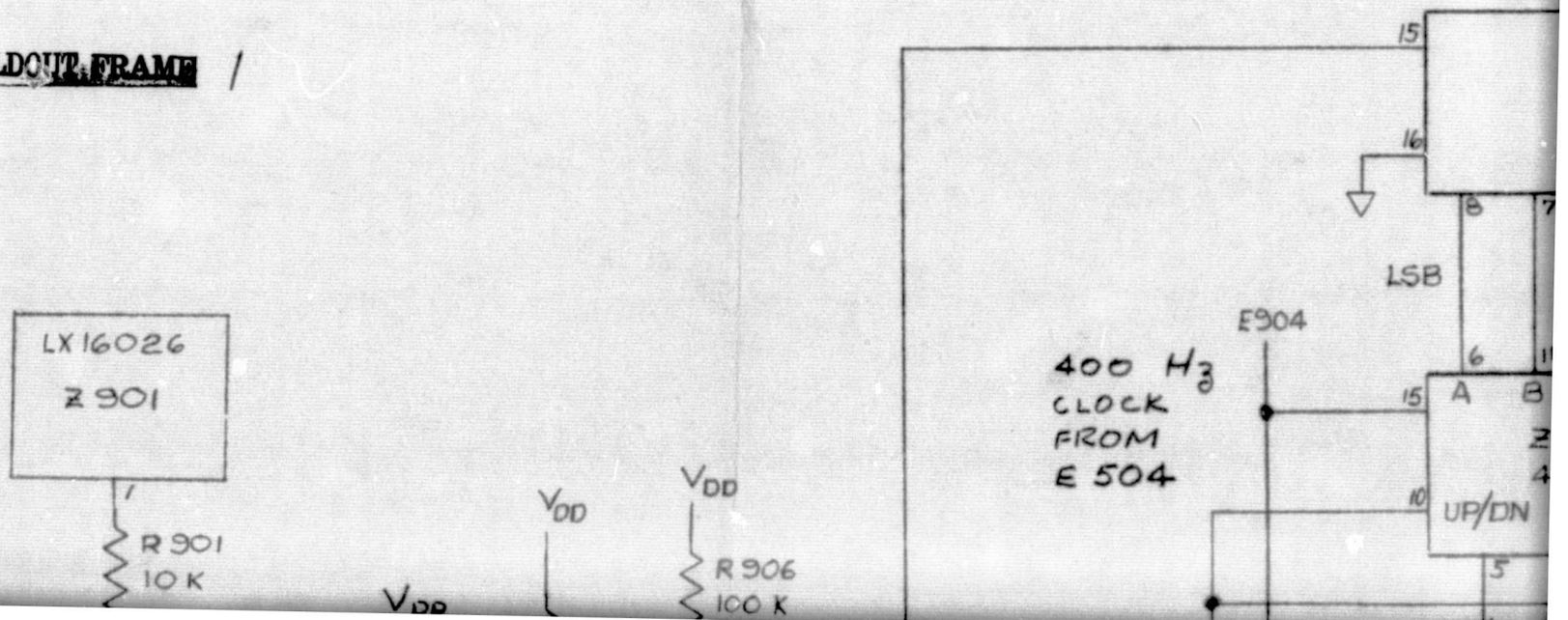
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
GROUP 800

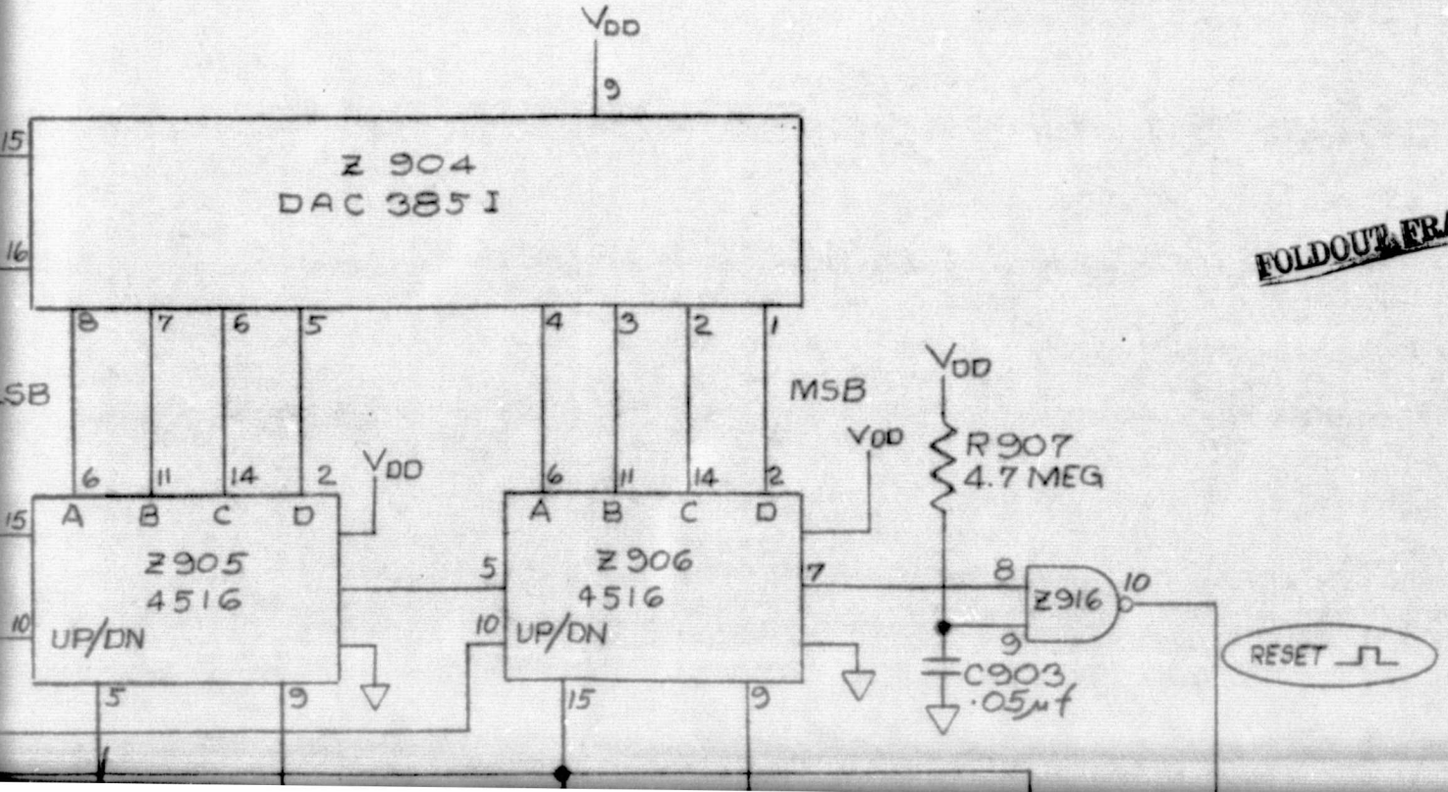
CODE IDENT	SIZE	PART NO.	REV.
	C	501360	

UNIT WT. SCALE ~ SH 1 OF 1

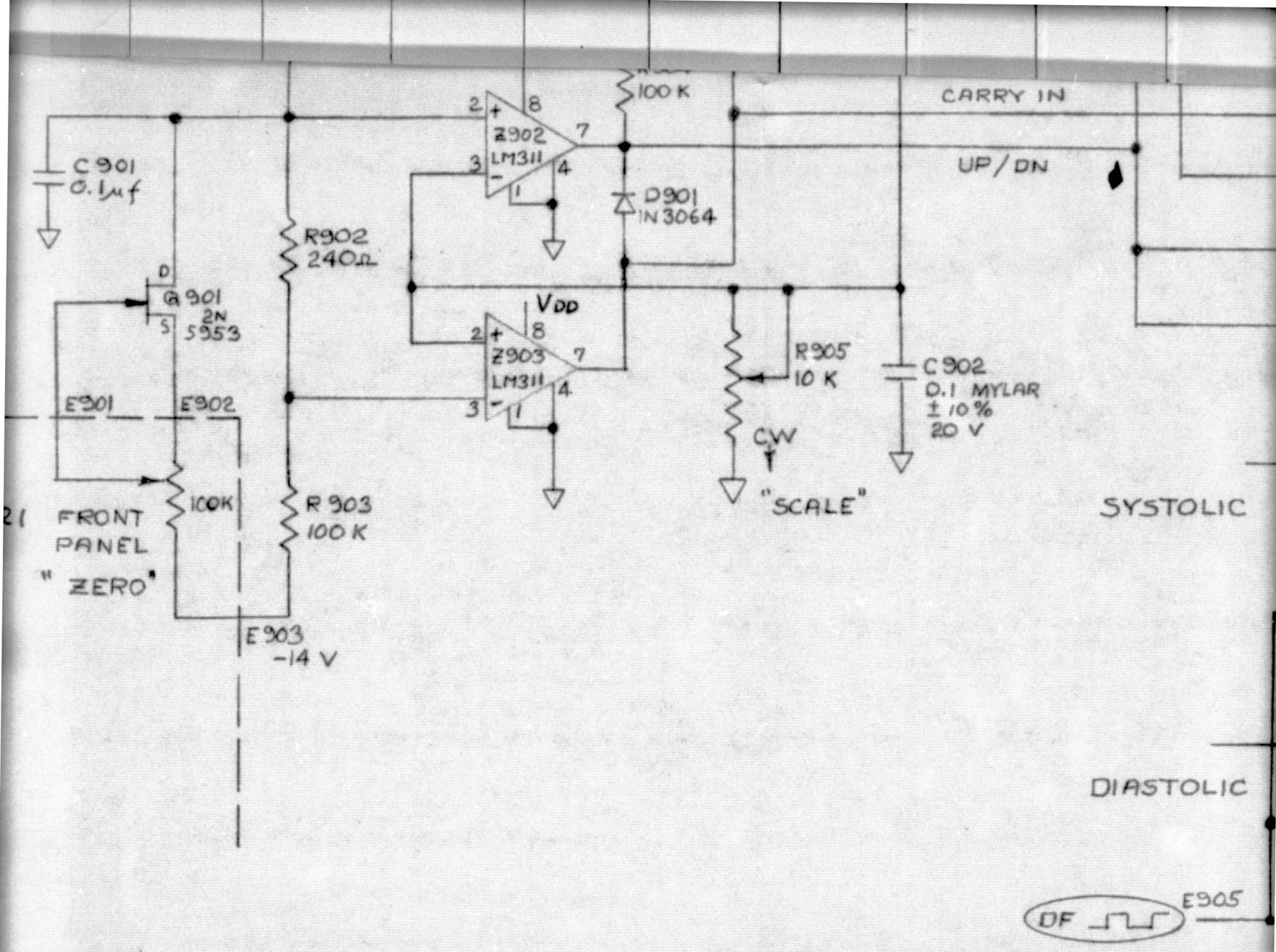
FOLDOUT FRAME /



REVISIONS			
REV.	DESCRIPTION	DATE	APPD



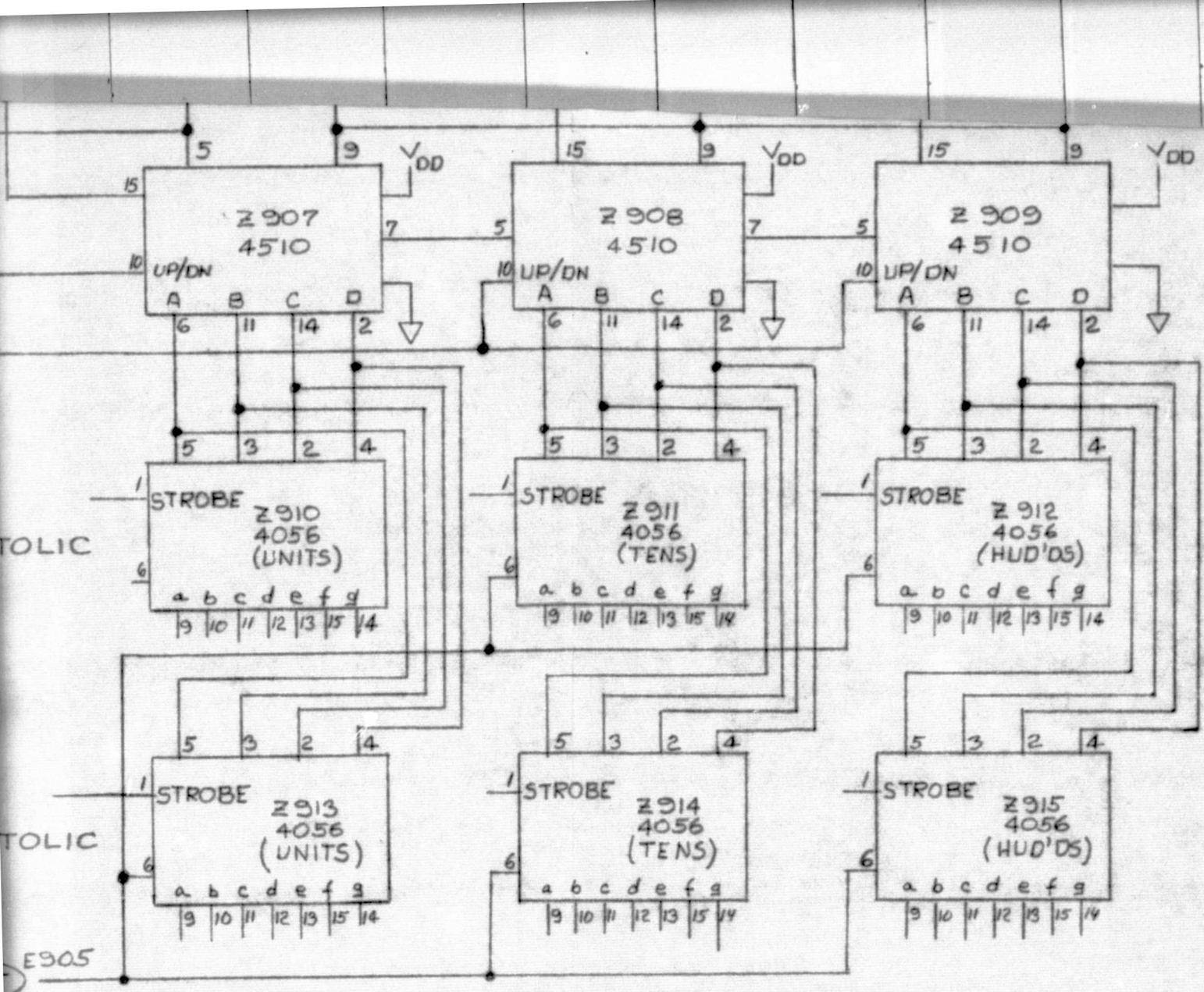
FOLDOUT FRAME 2



GROUP 900
BLOOD PRESSURE

FOLDOUT FRAME 3

USED ON	NEX
APPLICATION	



FOLDOUT FRAME 4

FOLDOUT FR

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.
TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS
MATERIAL
FINISH

DWN BY HPS DATE 5-14-75
CK BY DATE
APPD BY DATE
MFG. ENG. DATE
PROJ. ENG. DATE 15 MAY

TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TE

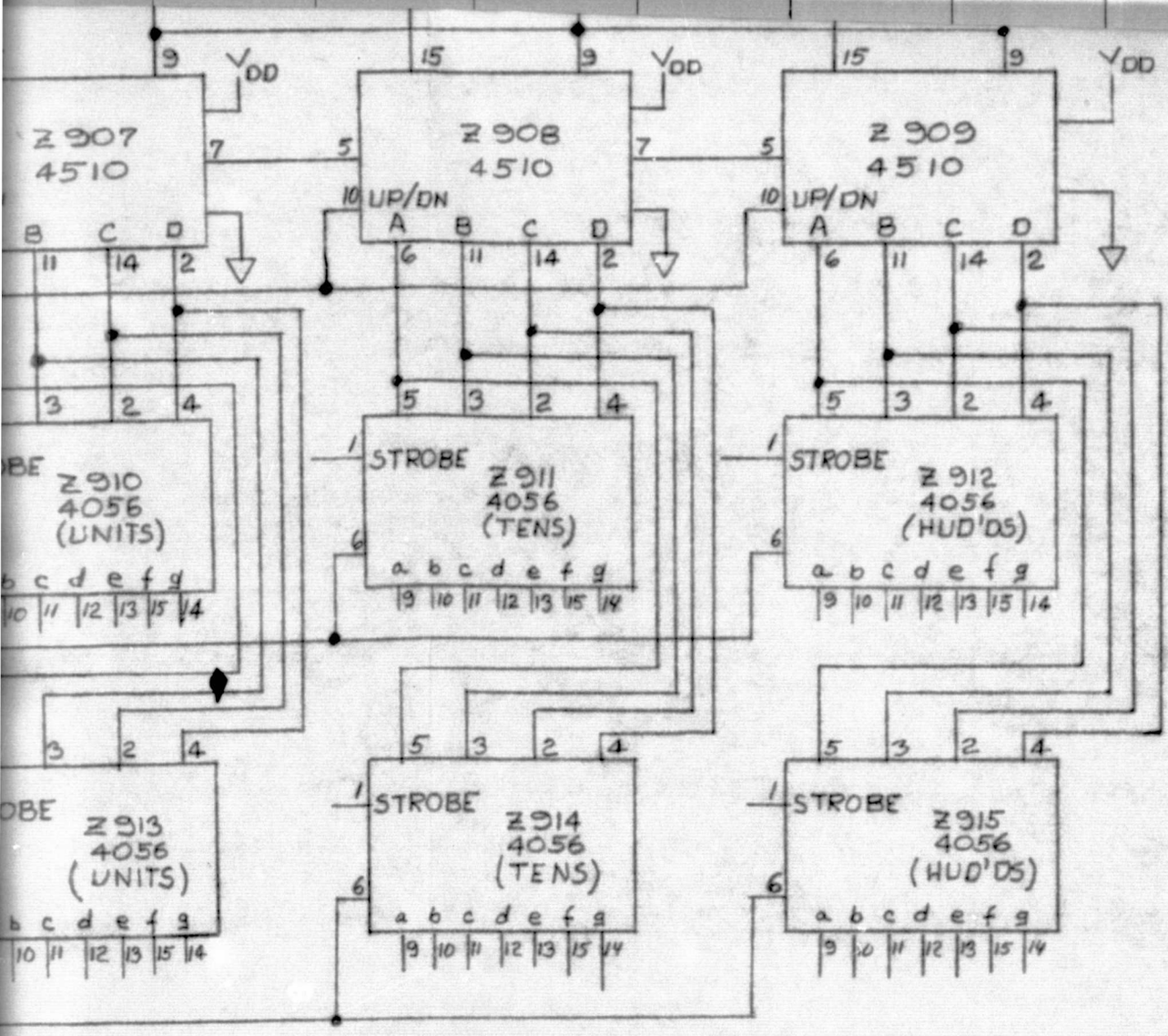
PORTABLE MEDICAL STATUS S
GROUP 900

CODE IDENT	SIZE	PART NO.
	C	501361

UNIT WT. SCALE ~ SH 1

NEXT ASS'Y

CATION



FOLDOUT FRAME 4

FOLDOUT FRAME 5

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY HBS DATE 5-14-75
CK BY DATE
APPD BY DATE
MFG. ENG. DATE
PROJ. ENG. DATE 15 MAY

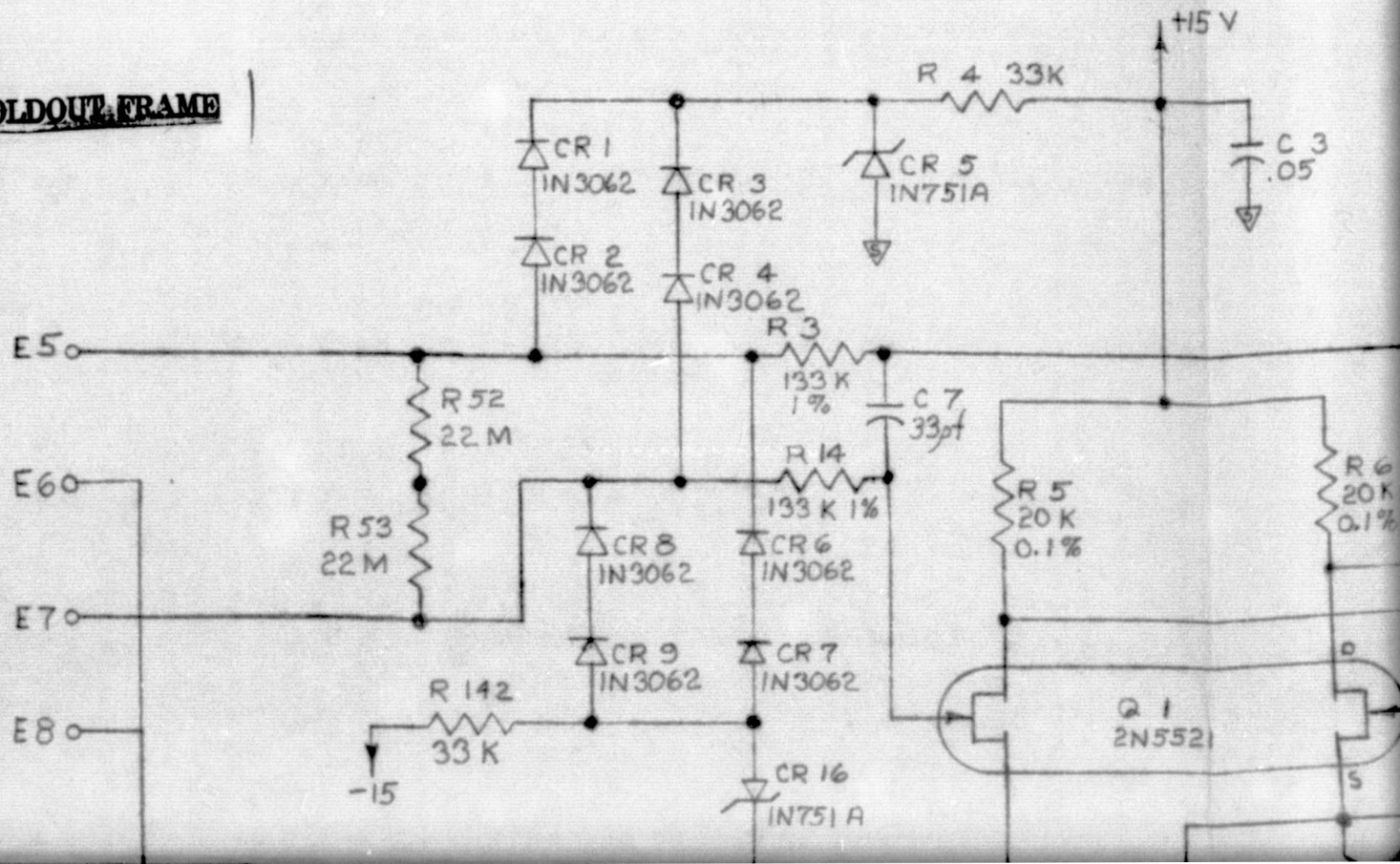
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

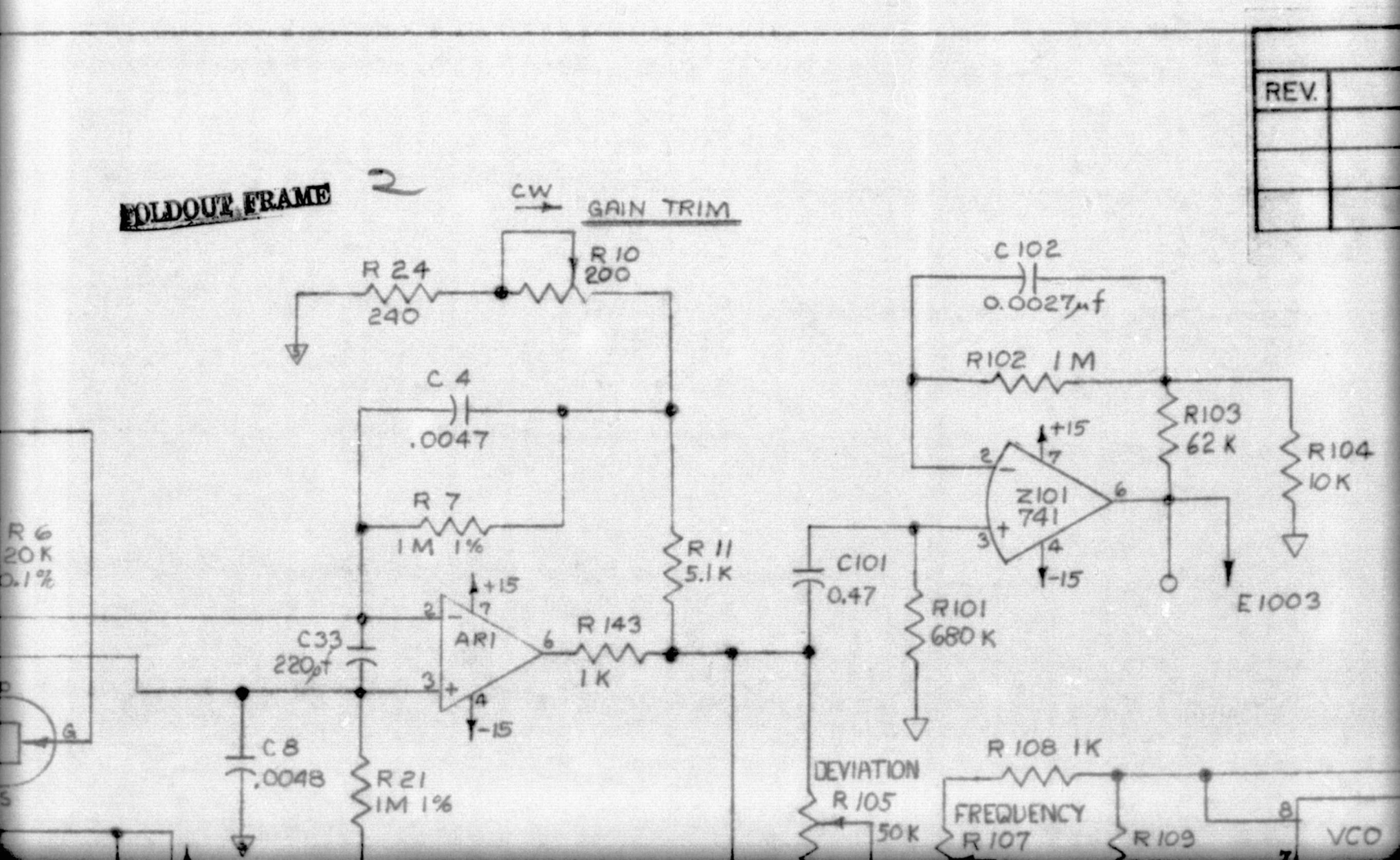
PORTABLE MEDICAL STATUS SYSTEM
GROUP 900

CODE IDENT	SIZE	PART NO.	REV.
	C	501361	

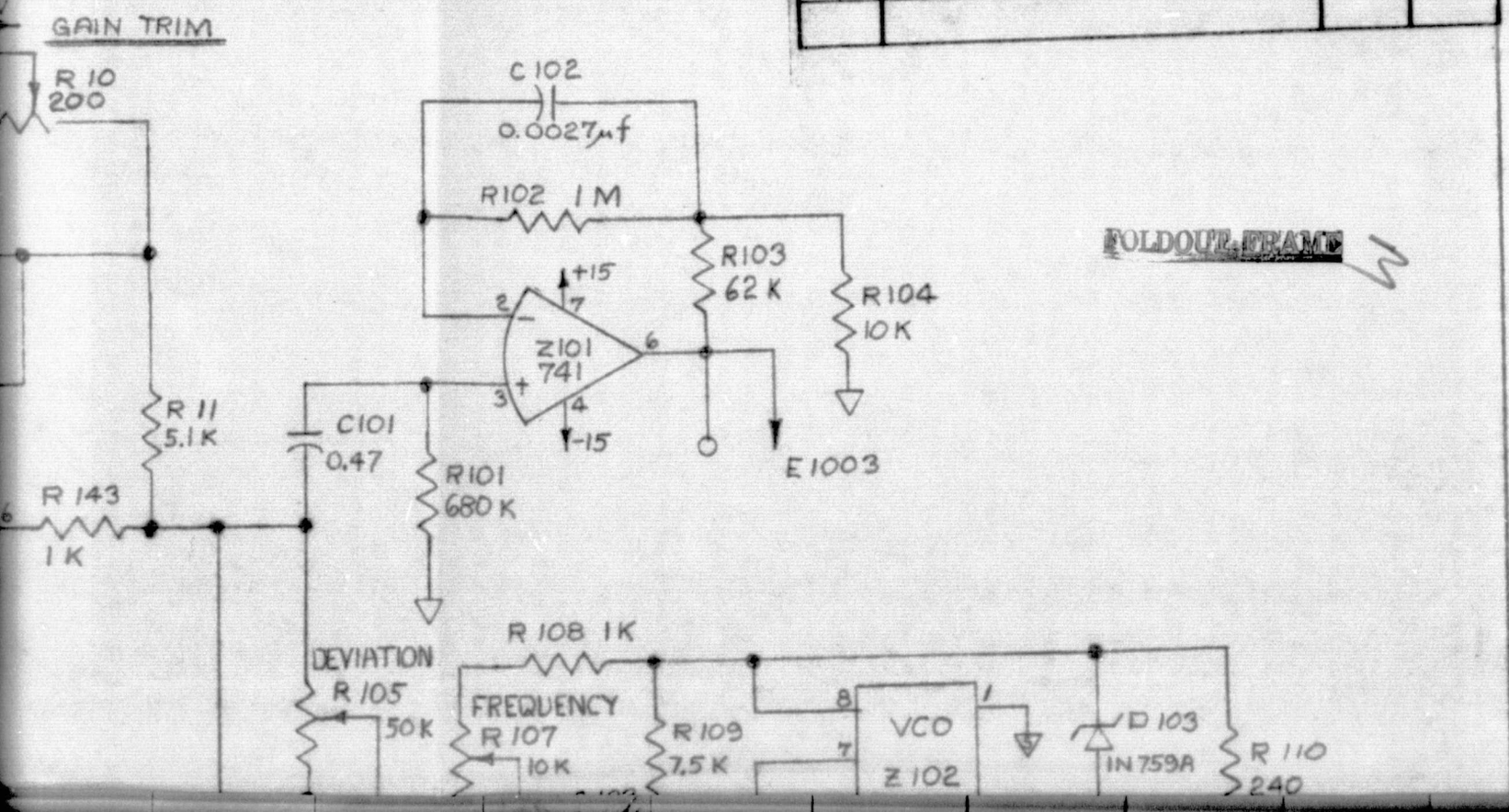
UNIT WT. SCALE ~ SH 1 OF 1

FOLDOUT FRAME

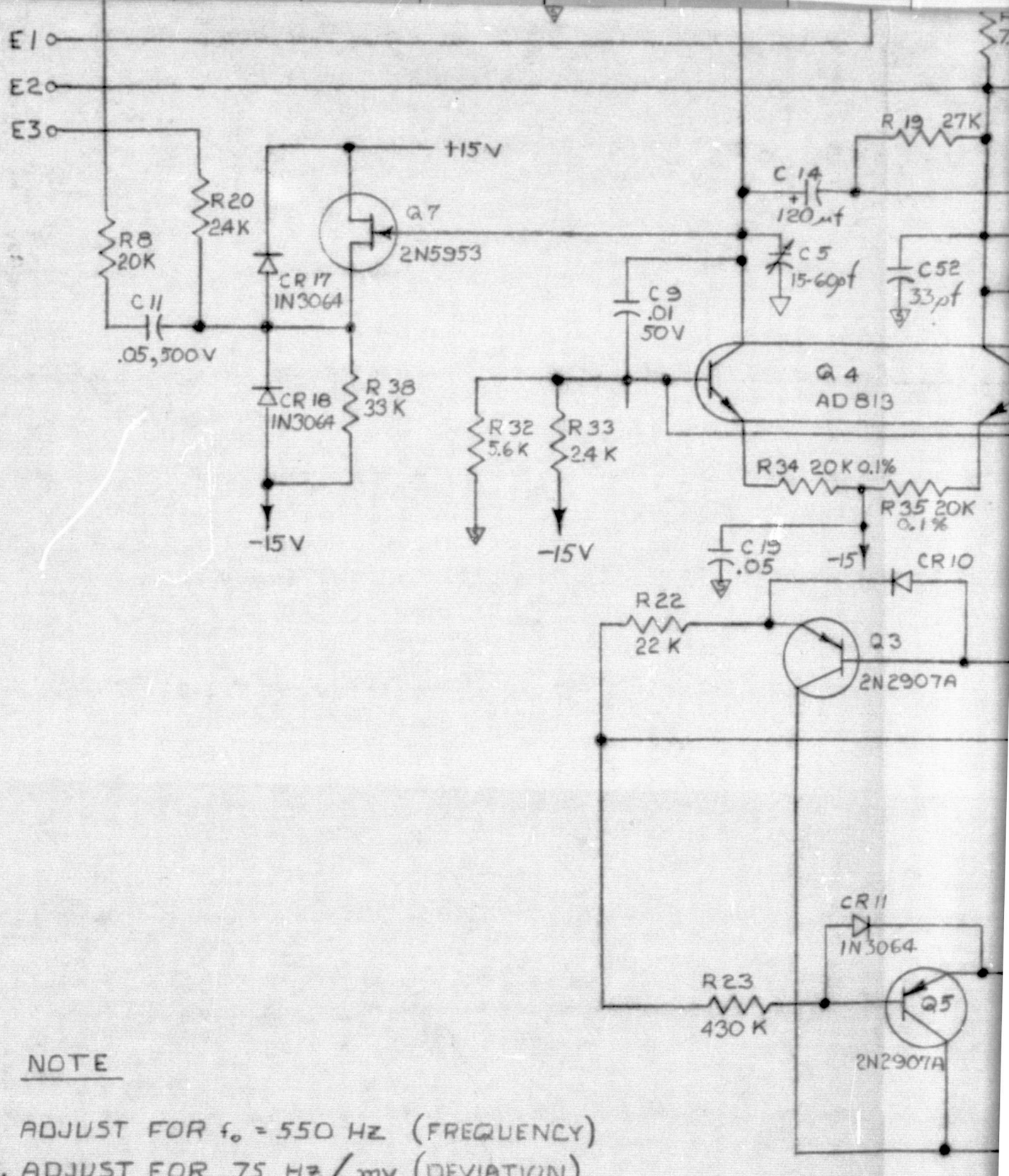



FOLDOUT FRAME 2
C.W
GAIN TRIM
R 24
240
R 10
200
C 4
.0047
R 7
1M 1%
R 6
20K
0.1%
R 11
5.1K
C33
220pf
A R1
+15
-15
R 143
1K
C 8
.0048
R 21
1M 1%
C101
0.47
R101
680K
C 102
0.0027μf
R102 1M
R103
62K
R104
10K
Z101
741
+15
-15
E1003
DEVIATION
R 105
50K
R 108 1K
FREQUENCY
R 107
R 109
VCO
REV.

REVISIONS			
REV.	DESCRIPTION	DATE	APPD



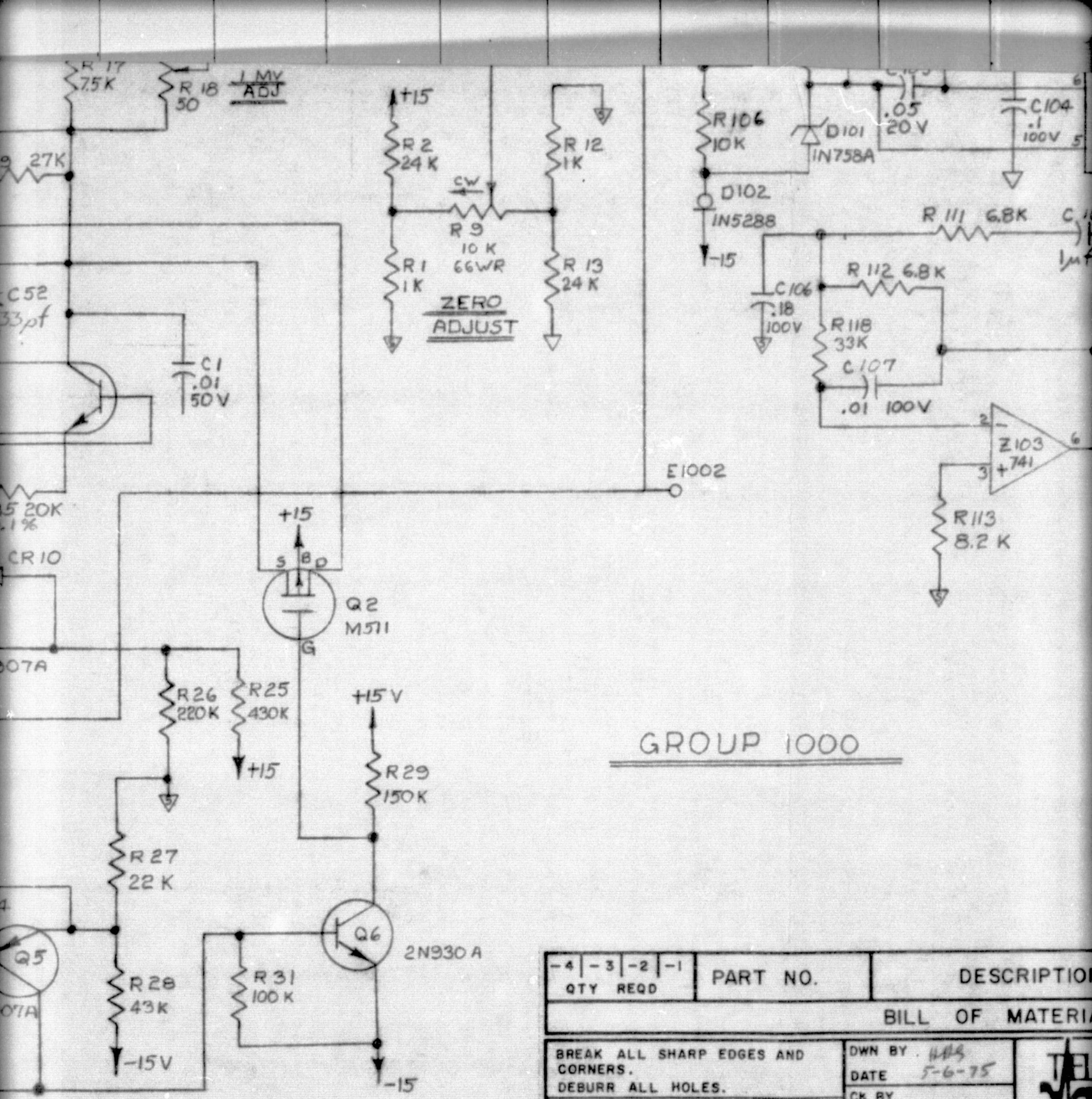
FOLDOUT FRAME



NOTE

1. ADJUST FOR f_o = 550 Hz (FREQUENCY)
2. ADJUST FOR 75 Hz/mv (DEVIATION)

FOLDOUT FRAME 4



GROUP 1000

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTIO
		BILL OF MATERIA

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

FINISH

DWN BY
DATE 5-6-75
CK BY
DATE
APPD BY
DATE
MFG. ENG.
DATE
PROJ. ENG.
DATE 18 JUL 75

PORTA

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UNIT WT.

USED ON	NEXT ASS'Y

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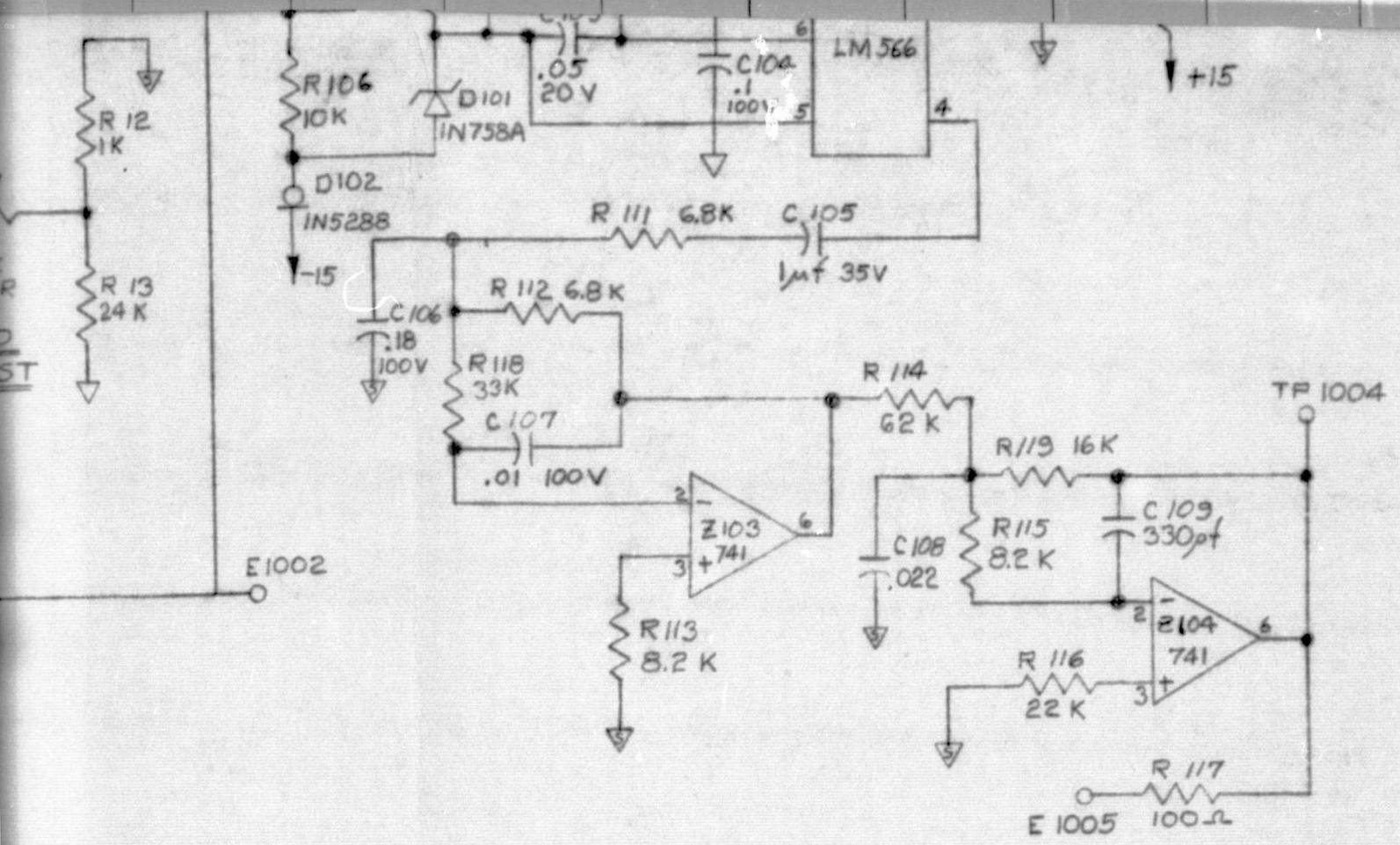
S

OLDOUT FRAME



GROUP 1000

FOLDOUT FRAME 6

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
.XXX = ±.010 .XX = ±.02 .X = ±.1
FRACTIONS ± ANGLES ±
SURFACE FINISH RMS

MATERIAL

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DWN BY HHS DATE 5-6-75
CK BY DATE
APPD BY DATE
MFG. ENG. DATE
PROJ. ENG. DATE 18 JUL 75

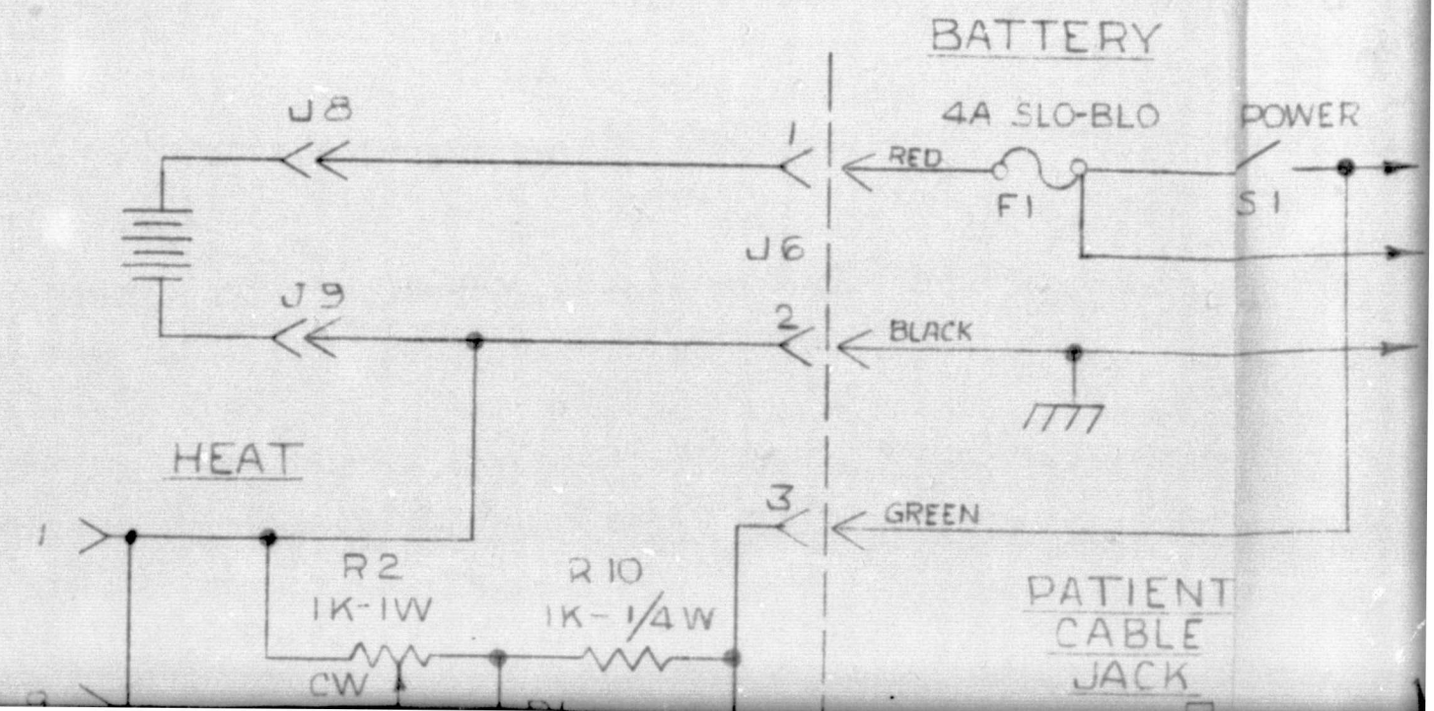
TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
GROUP 1000

CODE IDENT	SIZE	PART NO.	REV.
	C	501362	

UNIT WT. SCALE ~ SH 1 OF 1

FOLDOUT FRAME



REV.	

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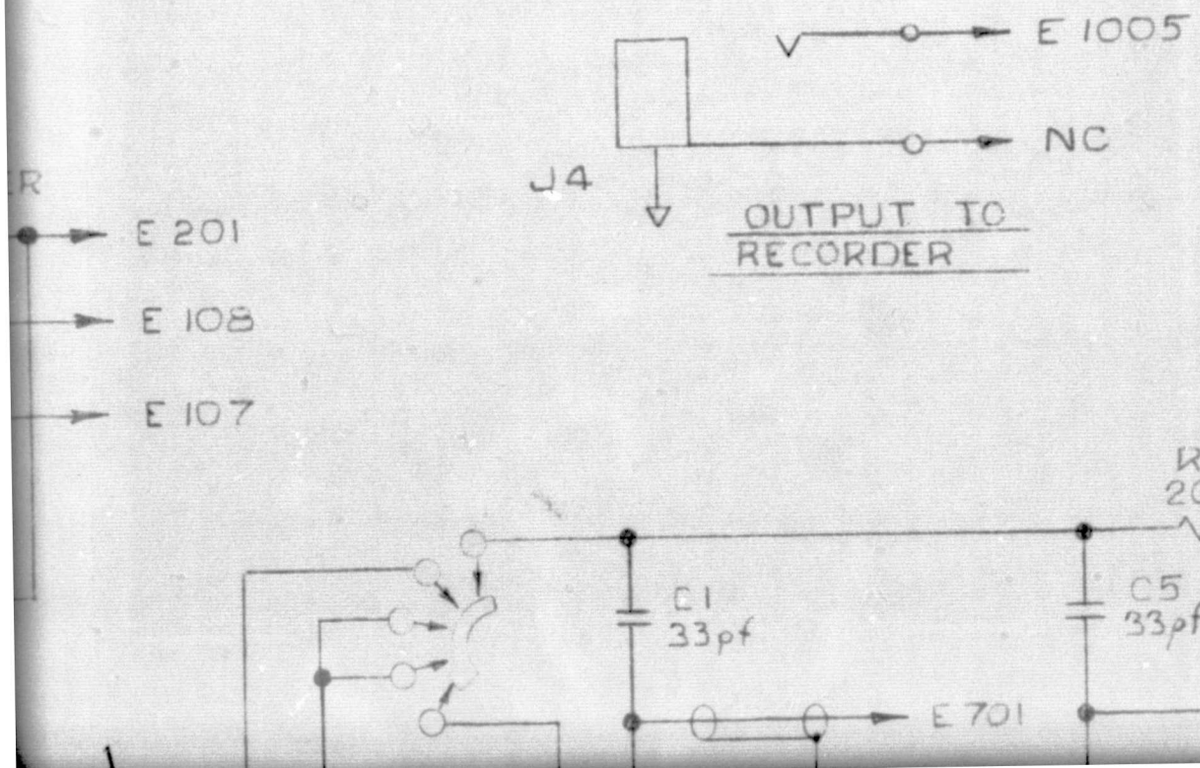

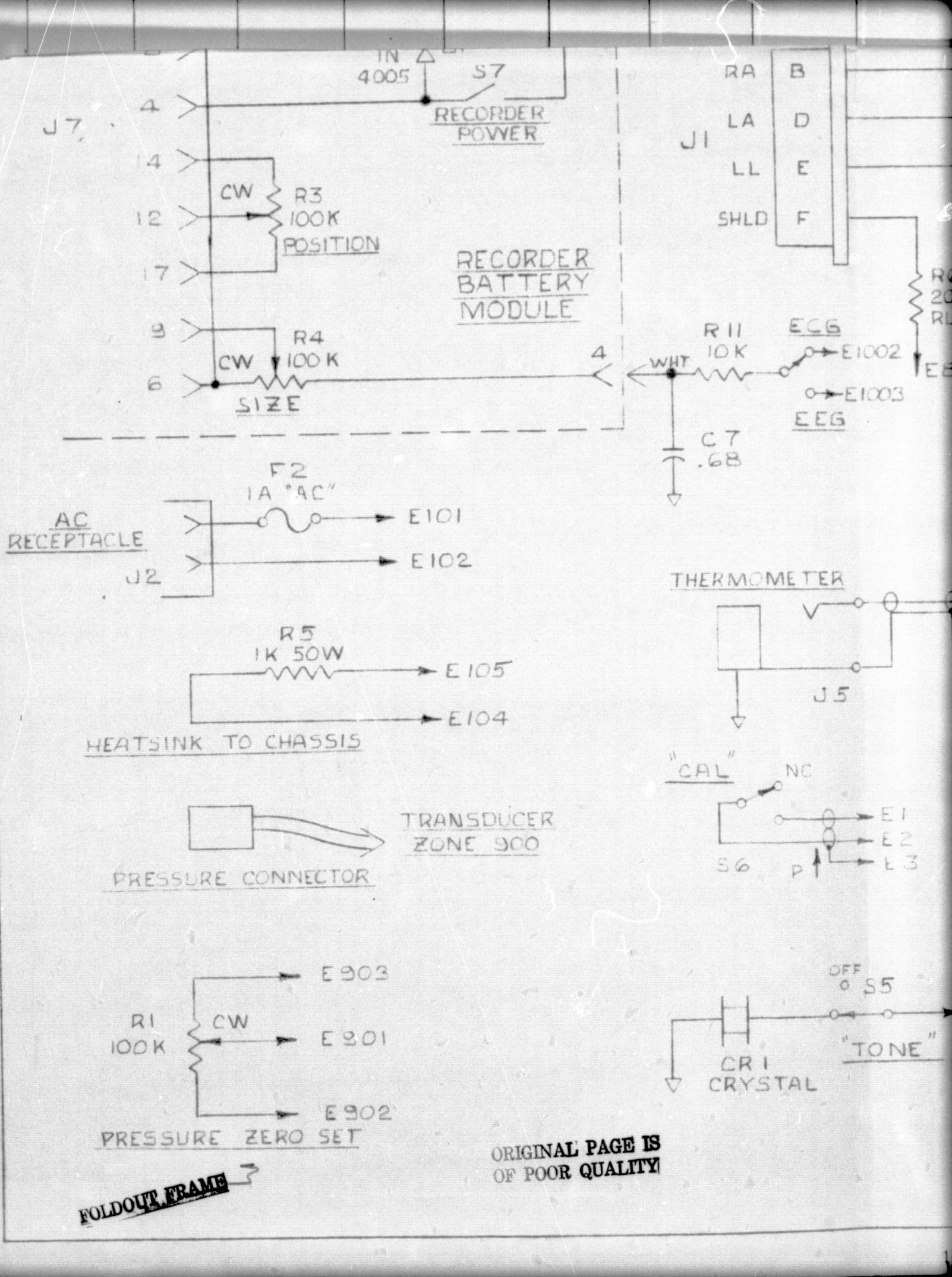

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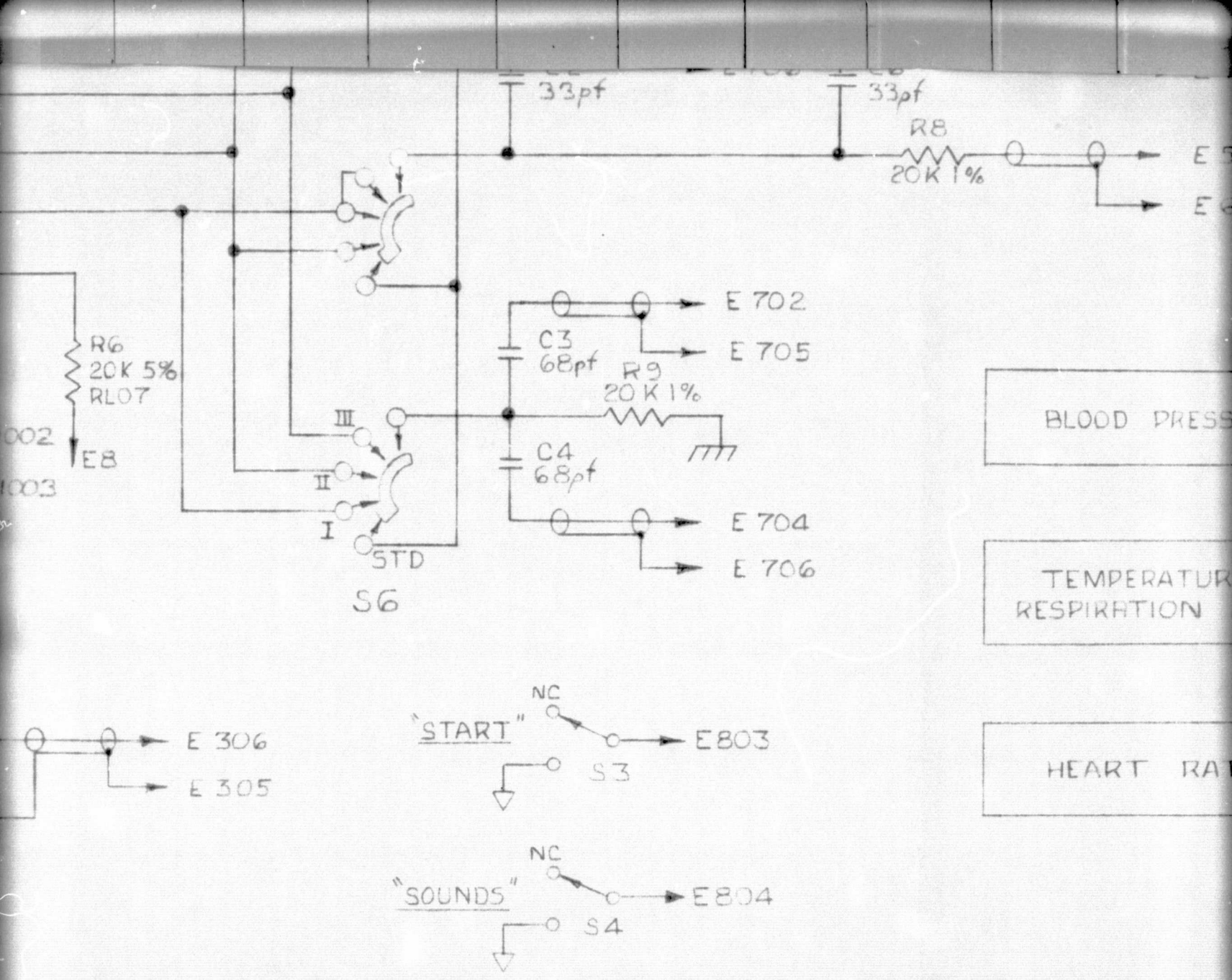
FOLDOUT FRAME



FOLDOUT FRAME 4

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPT
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BREAK ALL SHARP EDGES AND CORNERS.
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TOLERANCES UNLESS OTHERWISE SPECIFIED.
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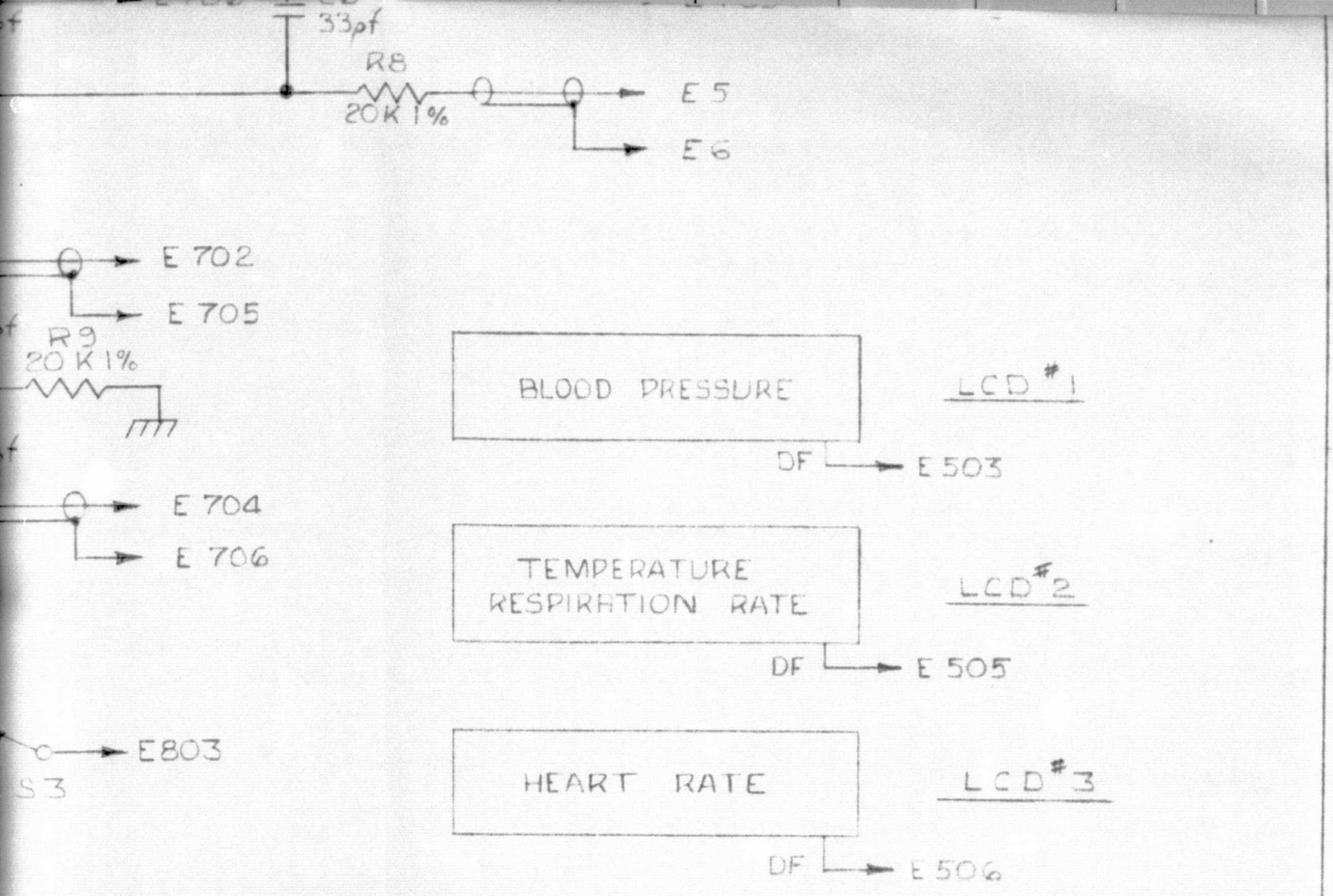

FOLDOUT FRAME

-4 | -3 | -2 | -1 QTY REQD	PART NO.	DESCRIPTION	REF. DES. OR MATERIAL	ITEM NO.

BILL OF MATERIAL

BREAK ALL SHARP EDGES AND CORNERS.
DEBURR ALL HOLES.

TOLERANCES UNLESS OTHERWISE SPECIFIED.
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FRACTIONS ± ANGLES ±
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MFG. ENG.
DATE
PROJ. ENG.
DATE 18 JUL 75

TELECARE INC.
8575 MOSLEY DRIVE HOUSTON, TEXAS 77034

PORTABLE MEDICAL STATUS SYSTEM
CHASSIS WIRING

CODE IDENT	SIZE	PART NO.	REV.
	C	501363	

UNIT WT. SCALE ~ SH 1 OF 1